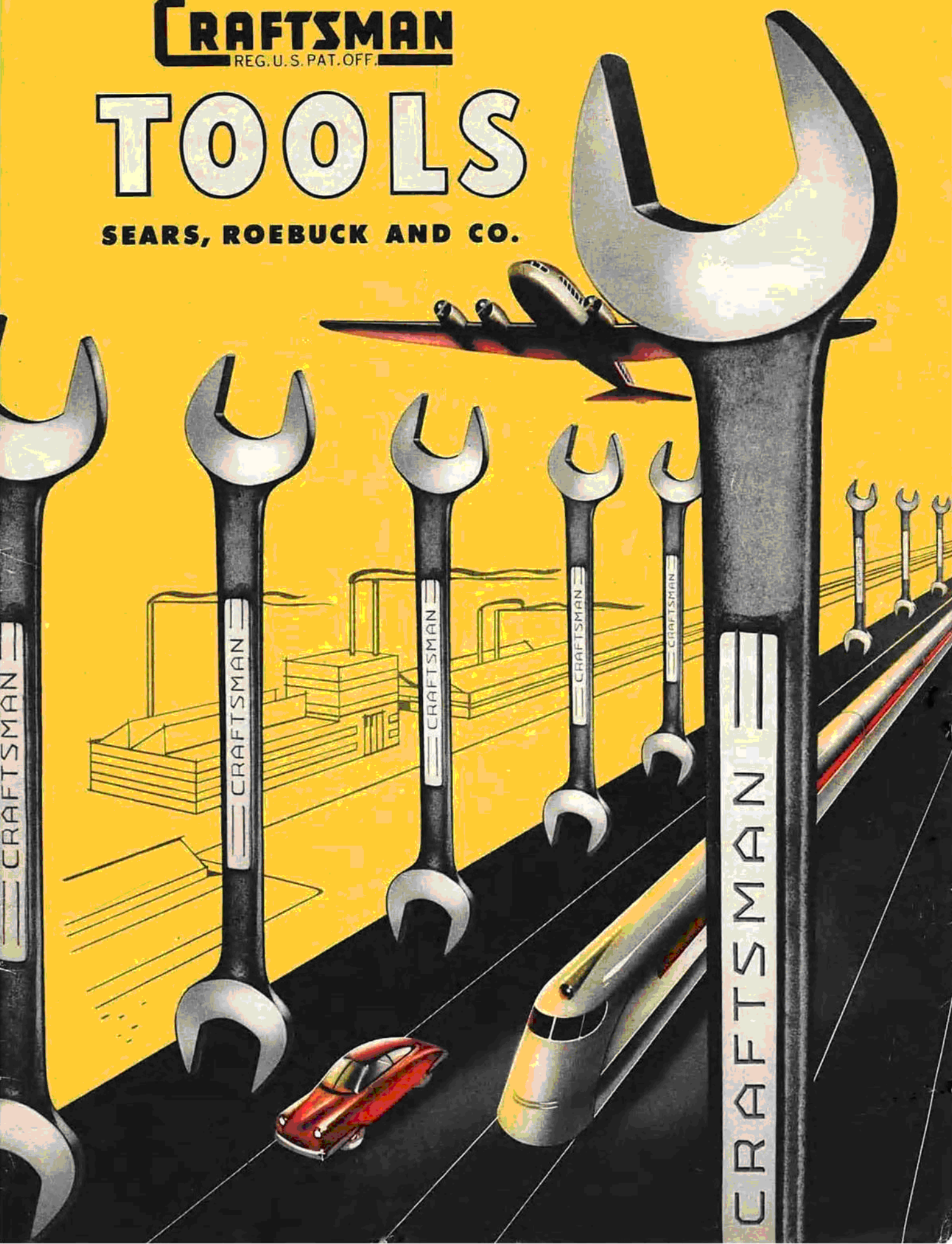


CRAFTSMAN
REG. U.S. PAT. OFF.

TOOLS

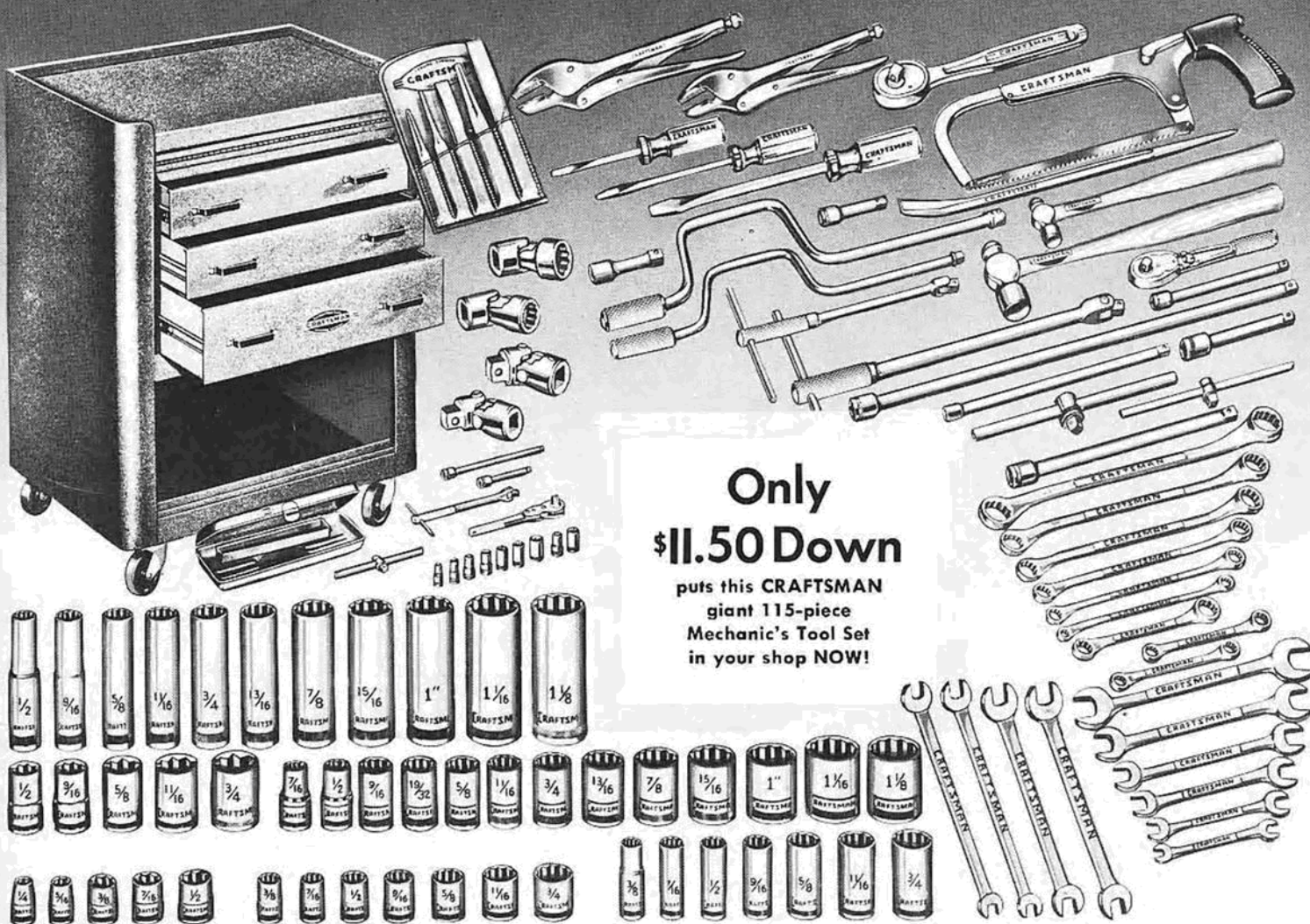
SEARS, ROEBUCK AND CO.



CRAFTSMAN 115-piece Mechanic's Set

Have the right tool when you need it
Save time . . . Save money . . . Save labor

- All parts are made of "Super-Tuff" steel, heat treated and hardened
- Guaranteed against breakage due to defects in material or workmanship
- Special spring ball lock-on feature keeps sockets from slipping off



Only
\$11.50 Down
puts this CRAFTSMAN
giant 115-piece
Mechanic's Tool Set
in your shop NOW!

CRAFTSMAN complete Mechanic's Set of top quality tools

Farmers! Mechanics! Here's the most complete mechanic's tool set that money can buy. A complete 115-piece CRAFTSMAN Mechanic's Tool Set, including an all-steel storage cabinet, for the amazingly low price of only \$112.00. You'd have to pay at least \$10 more if you bought each piece separately. Set contains all the tools needed to handle almost any repair or assembly job you might have.

Every tool is famous CRAFTSMAN quality throughout. Precision built of finest materials and workmanship available. Each piece is expertly made of "Super-Tuff" steel, heat treated and carefully hardened, for durability and accuracy. Super-strong yet super-thin side walls are especially useful in doing those hard-to-reach maintenance and repair jobs. Clean, accurate, precision broached openings ensure snug, non-slip grip. Correctly balanced for ease in handling. Special spring ball lock-on feature prevents sockets from dropping off and also gives the same service as a one-piece tool. All parts have highly polished finish and are guaranteed against defects in material or workmanship.

Complete 115-piece set includes the following tools!

1/4-inch square drive parts. Seven 6-point sockets ($\frac{7}{32}$ to $\frac{7}{16}$ inch); two 8-point sockets ($\frac{1}{2}$ and $\frac{3}{16}$ inch); reversible ratchet; 6-inch flex "T" handle with crossbar; two extension handles (3 and 6 inch) and 4-inch slide bar handle.

3/8-inch square drive parts. Five 8-point sockets ($\frac{1}{4}$ to $\frac{1}{2}$ inch); seven 12-point sockets ($\frac{3}{8}$ to $\frac{3}{4}$ inch); seven 12-point extra deep sockets ($\frac{3}{8}$ to $\frac{3}{4}$ inch); two 12-point flexible sockets ($\frac{1}{2}$ and $\frac{9}{16}$ inch); three extensions (3, 6, and 11 inch); 16-inch speeder wrench; 10-inch flex "T" handle with crossbar; $7\frac{1}{2}$ -inch slide bar handle; reversible ratchet and universal joint.

1/2-inch square drive parts. Thirteen 12-point sockets ($\frac{7}{16}$ to $1\frac{1}{2}$ inch); five 8-point sockets ($\frac{1}{2}$ to $\frac{3}{4}$ inch); eleven 12-point deep spark plugs sockets ($\frac{1}{2}$ to $1\frac{1}{2}$ inch); four socket extensions (2, 5, 10, and 20 inch); 15-inch flex "T" handle with crossbar; 9-inch slide bar handle; 18-inch speeder wrench; reversible ratchet and universal joint.

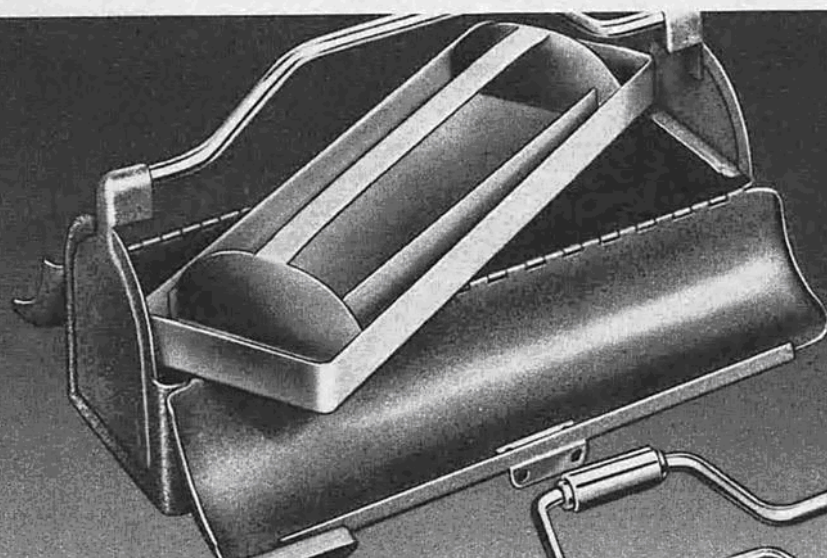
Miscellaneous Tools. 6 open-end wrenches ($\frac{3}{8} \times \frac{1}{2}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{9}{32} \times 1\frac{1}{16}$, $\frac{5}{8} \times \frac{3}{4}$, $\frac{3}{4} \times \frac{7}{8}$, $1\frac{1}{2} \times 1$ inch); 6 long box-end wrenches ($\frac{3}{8} \times \frac{1}{2}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{9}{16} \times \frac{3}{4}$, $\frac{1}{2} \times 1\frac{1}{16}$, $\frac{3}{4} \times \frac{7}{8}$, $1\frac{1}{2} \times 1$ inch); 3 short box-end wrenches ($\frac{3}{8} \times \frac{1}{2}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{5}{8} \times \frac{3}{4}$ inch); 2 tappet wrenches ($\frac{1}{2} \times \frac{9}{16}$ inch); 2 tappet wrenches ($\frac{3}{8} \times 1\frac{1}{16}$ inch); 5-piece punch and chisel set in leather case, 16-inch prybar, 3 amber handle screwdrivers (4, 6, 8 inch); 2 ball peen hammers (8 and 12 oz.); 1 quick-adjusting hack saw; 2 lever-jaw wrenches (9 and 12 in.); and 1 steel roller cabinet, 17x25x32 in. Has 3 strong drawers and large bottom compartment with front panel. Shipped freight or express.

99 PCM 4346—Shipping weight 150 lbs. 115-piece set. . . . Cash \$112.00

\$112.00
Cash

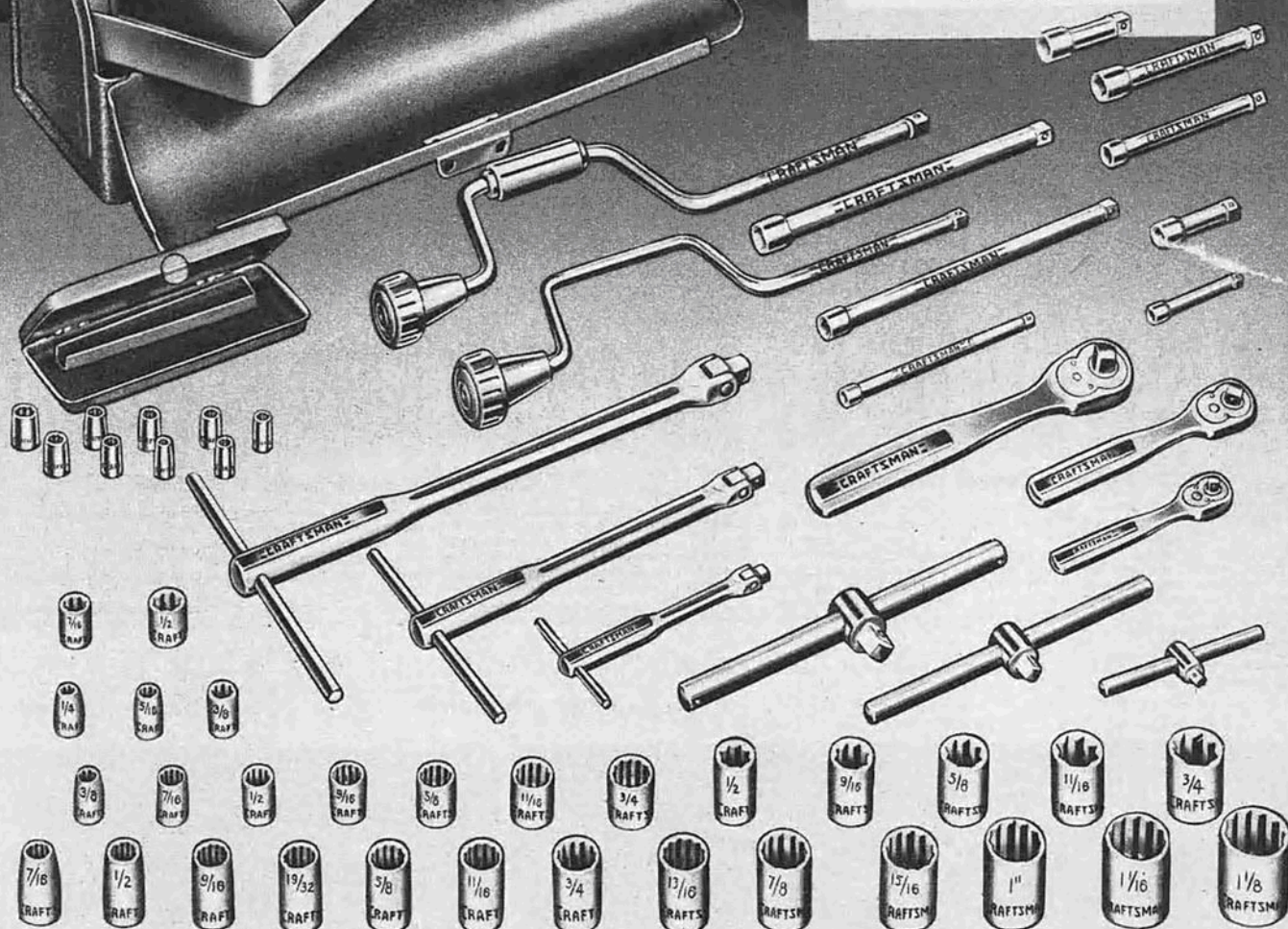
New CRAFTSMAN Forged Socket Set

Forged Sockets are 25% stronger, 25% lighter they last longer and are easier to use . . .



Only
\$450 down

for
this NEW CRAFTSMAN
60-piece forged
Socket Set



CRAFTSMAN 60-piece Hot Forged Socket Wrench Set

This NEW 60-piece hot forged socket wrench set gives any mechanic all the tools needed for most jobs. New improvement—hot forging—makes the sockets much more rugged, 25% stronger, 25% lighter in weight and easier handling than sockets made by conventional methods. Forging causes the grain of metal to follow the contour of socket; increases the density of grain for a tougher inner working surface. Use them and compare. You too will notice the great improvement. Notice also the streamlined design and the thinner side walls to get into those tight, hard to reach places.

All parts are made from "Super-Tuff" steel, carefully heat treated and hardened for necessary toughness. 39 sockets completely cover a range of work from $\frac{1}{32}$ to $1\frac{1}{2}$ inch. Openings are precision broached and held to a .002 tolerance to prevent slipping and rounding of hex nuts. Will give years of dependable service.

Special spring ball lock-on feature prevents sockets from slipping off. Holds sockets securely while being used. Gives the same service as a one-piece tool.

CRAFTSMAN quality throughout . . . which means the finest material and skilled workmanship are built into every piece. All pieces are fully guaranteed against breakage due to defects in material or workmanship. Chrome plated and highly polished finish for finer appearance and resistance to rust.

Complete 60-piece set includes the following tools:

$\frac{1}{4}$ -inch square drive parts. Seven 6-point sockets ($\frac{1}{32}$ to $\frac{1}{16}$ inch); two 8-point sockets ($\frac{1}{4}$ and $\frac{3}{16}$ inch); 6-inch flex "T" handle with crossbar; 4-inch slide bar

handle, reversible ratchet, two extension handles (3 and 6 inch) and midget tool box.

$\frac{3}{8}$ -inch square drive parts. Seven 12-point sockets ($\frac{1}{16}$ to $\frac{1}{4}$ inch); five 8-point sockets ($\frac{3}{4}$ to $\frac{1}{2}$ -inch); three socket extensions (3, 6, and 11-inch); 16-inch speeder wrench; 19-inch flex "T" handle with crossbar; slide bar handle and reversible ratchet.

$\frac{1}{2}$ -inch square drive parts. Thirteen 12-point sockets ($\frac{1}{16}$ to $1\frac{1}{2}$ inch); five 8-point sockets ($\frac{1}{2}$ to $\frac{3}{4}$ inch); three socket extensions (2 $\frac{1}{2}$, 5 and 10-inch); 15-inch flex "T" handle with crossbar; 9-inch slide bar handle; 18-inch speeder wrench and reversible ratchet.

Complete set comes in a rugged, die-formed 22 gauge steel streamlined tool box. Ends are welded for greater strength and longer life. Box has nickel-plated tubular steel handle attached at ends . . . no strain on hinges when carrying . . . box may be carried by handle even when open. Has divided "tote" tray, 6 $\frac{1}{4}$ x9 inches that helps keep small tools in order. Full length, easy-action, piano-type hinges. Rust-resisting, machinery gray finish. Size of tool box: 19 $\frac{1}{2}$ x7x7 $\frac{1}{4}$ inches. Shipping weight 30 pounds.

99 PC04347—Complete 60-piece set. Cash \$44.50

\$44⁵⁰
Cash

CRAFTSMAN SOCKET WRENCH SETS . . . Here are 9 reasons why we believe there are no finer Socket Wrenches made!

1. More CRAFTSMAN Socket Wrench Sets are sold than any other brand . . . they have to be good to win such lasting, widespread public approval.
2. They are widely used to maintain airplane engines on large airlines—in jobs that demand the highest quality precision tools.
3. During the war, they were used to service and maintain fighting equipment such as tanks and PT boats . . . and they passed this toughest test.
4. They are used as standard equipment in many large industrial plants and garages . . . especially popular for automotive repair and assemblies.
5. They meet the exacting specifications of the U.S. Navy 41W10 (INT), and the Army Air Forces 50100-50176-50329.
6. All parts are made of "Super-Tuff" steel . . . heat treated and hardened for the necessary toughness and longest possible service.



CRAFTSMAN 12-piece Socket Wrench Set

\$675 1/2-inch square drive. Really a tremendous value at Sears low price! This is a high quality set with all the famous CRAFTSMAN Socket Wrench features enumerated above and at top of opposite page. Contains the right sizes for a handy, general purpose set—you'll find it exceptionally valuable in either home shop repairs or for exacting professional requirements. The slender handles and super-thin wall sockets make these tools unusually handy for getting at those tight, cramped places on a modern automobile.

Ten 12-point sockets (7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, and 1-inch); and 15-inch flex "T" handle with crossbar. All packed in a heavy gauge steel tool box.

9 PC 4396—Shipping weight 5 pounds. 12-piece set \$6.75



CRAFTSMAN 16-piece Socket Wrench Set

\$1575 1/2-inch square drive. Here's a set that is universally popular among mechanics in the industrial, automotive and aircraft fields who demand the highest quality in tools. No really modern farm can afford to be without this set, either . . . it's indispensable for the repair and maintenance of all power farming equipment. You'll find it especially valuable for reaching counter-sunk nuts and bolts which ordinary wrenches cannot reach . . . so important when working in tight, out-of-the-way places on modern cars.

This set contains all the tools necessary to do basic work on motors and assemblies. Left or right hand reversible ratchet handle included makes it easy to return handle to the position which gives the most leverage; saves time and avoids skinned knuckles.

Set includes: Ten 12-point sockets (7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1-inch); two socket extensions (5 and 10-inch); reversible ratchet; 18-inch speeder wrench; 15-inch flex "T" handle with crossbar, and heavy duty steel tool box with leather-covered handle.

99 PC 04409—Shipping weight 15 pounds 16-piece set \$15.75



CRAFTSMAN 9-piece Set

\$435 A 3/4-in. square drive. Just the pieces for small home jobs on motors, etc.

Seven 12-point sockets (3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4-in.); 10-in. flex "T" handle with crossbar, and heavy metal tool box. Shipping weight 1 lb. 8 oz.

9 PC 4395 9-piece set \$4.35



CRAFTSMAN 18-piece heavy duty Set

\$3795 C 3/4-in. square drive. Ideal for repair and assembly of trucks, tractors, etc. Thirteen 12-pt. sockets (1 1/16, 1 1/8, 1 1/4, 1 1/2, 1 5/8, 1 3/4, 1 7/8, 2, 2 1/8, 2 1/4, 2 1/2, 2 3/4, 3-in.); 2 extensions (8 and 16-in.); reversible ratchet; 18-in. slide bar handle. In steel hip-roof tool box with "tote" tray.

99 PC 04449—Shipping weight 47 lbs. 18-pc. set \$37.95

CRAFTSMAN 16-piece Socket Wrench Set

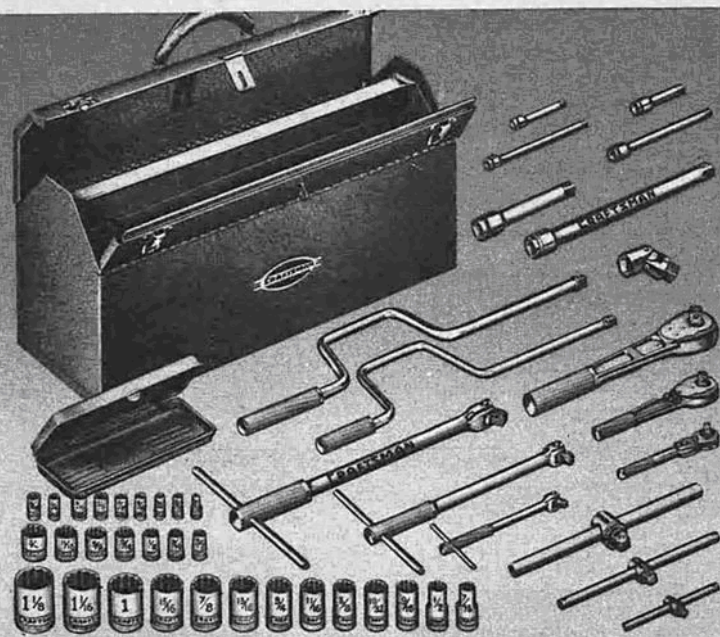
\$1350 B 3/4-in. square drive parts. Used in many industries as standard equipment—very handy for auto repairs. Seven 12-point sockets (3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4-inch); three socket extensions (3, 6, and 11-inch); reversible ratchet; 7 1/2-inch slide bar handle; 16-inch speeder wrench; 10-inch flex "T" handle with crossbar; universal joint; heavy gauge steel tool box, size 17 1/2 x 5 x 1 1/2 inches.

9 PC 4397—Shipping weight 8 pounds. 16-piece set \$13.50

Only 10% down will put a superb

CRAFTSMAN Socket Set in your shop

7. Sockets are precision broached for a snug, non-slip, accurate fit... side walls are thin to get into close, out-of-the-way places.
8. Special spring lock-on feature prevents sockets from dropping off... permits them to give the same service as a one-piece tool.
9. We're so sure they're the best that we unconditionally guarantee all parts against breakage due to defects in materials and workmanship.



CRAFTSMAN 49-piece Socket Wrench Set

Contains all the tools needed for a first class job.

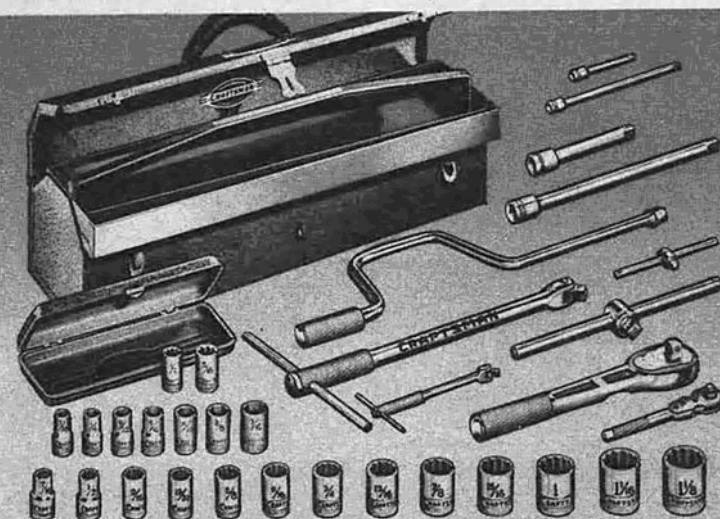
1/2-in. square drive parts. Thirteen 12-pt. sockets (7/16, 1/2, 9/16, 5/8, 11/8, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4-in.); 2 extensions (5 and 10 in.); reversible ratchet; 9-in. slide bar handle; 18-in. speeder wrench; 15-in. flex "T" handle with crossbar; universal joint.

3/4-in. square drive parts. Seven 12-pt. sockets (3/8, 7/16, 1/2, 9/16, 5/8, 11/8, 1 1/8, 1 1/4-in.); 2 socket extensions (3 and 6-in.); reversible ratchet; 8-in. slide bar handle; 16-in. speeder wrench; 10-in. flex "T" handle with crossbar.

1/4-in. square drive parts. Seven 6-pt. sockets (7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16-in.); two 8-pt. sockets (1/4 and 5/16-in.); two socket extensions (3 and 6-in.); reversible ratchet; 4 1/2-in. slide bar handle; 6-in. flex "T" handle with crossbar; midjet tool box.

In rugged 22-gauge steel hip-roof tool box, lift-out tote tray; machinery gray finish. 99 PC 04403—Shipping weight 25 pounds. 49-piece set \$37.50

\$37.50
Cash
\$4.00 down



CRAFTSMAN 35-piece Socket Wrench Set

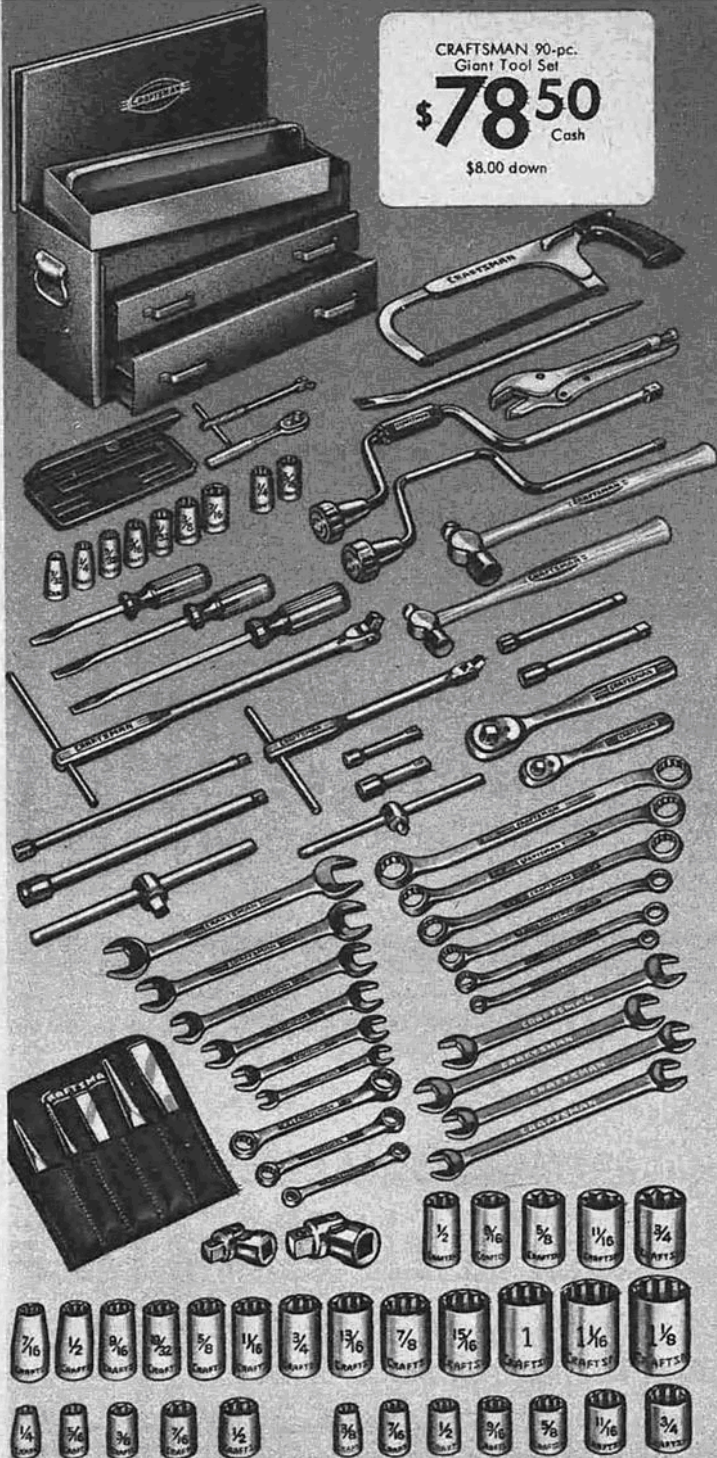
22 sockets cover an unusually wide range of work. Includes:

1/2-in. square drive parts. Thirteen 12-point sockets (7/16, 1/2, 9/16, 5/8, 11/8, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4-in.); 2 extensions (5 and 10-in.); reversible ratchet; 9-in. slide bar handle; 18-in. speeder wrench; 15-in. flex "T" handle with crossbar.

3/4-in. square drive parts. Seven 6-pt. sockets (7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16-in.); two 8-pt. sockets (1/4 and 5/16-in.); 2 extensions (3 and 6-in.); reversible ratchet; 4 1/2-in. slide bar handle; 6-in. flex "T" handle with crossbar; midjet tool box.

Packed in a mechanics' tool box; size 18 1/2 x 5 1/2 x 5 1/2 in. 22-gauge steel... electrically welded construction... lift-out tote tray... machinery gray finish. 99 PC 04401—Shipping weight 17 pounds. 35-piece set \$25.50

\$25.50
Cash
\$3.00 down



CRAFTSMAN 90-pc.
Giant Tool Set

\$78.50
Cash

\$8.00 down

CRAFTSMAN 90-piece Set... handles almost every job

This set was selected by us to do the greatest number of jobs, efficiently and quickly. Almost every tool you can think of... plus a big portable steel cabinet to keep them in! You're ready for any repair or assembly job with this set of high quality tools, selected from the CRAFTSMAN line.

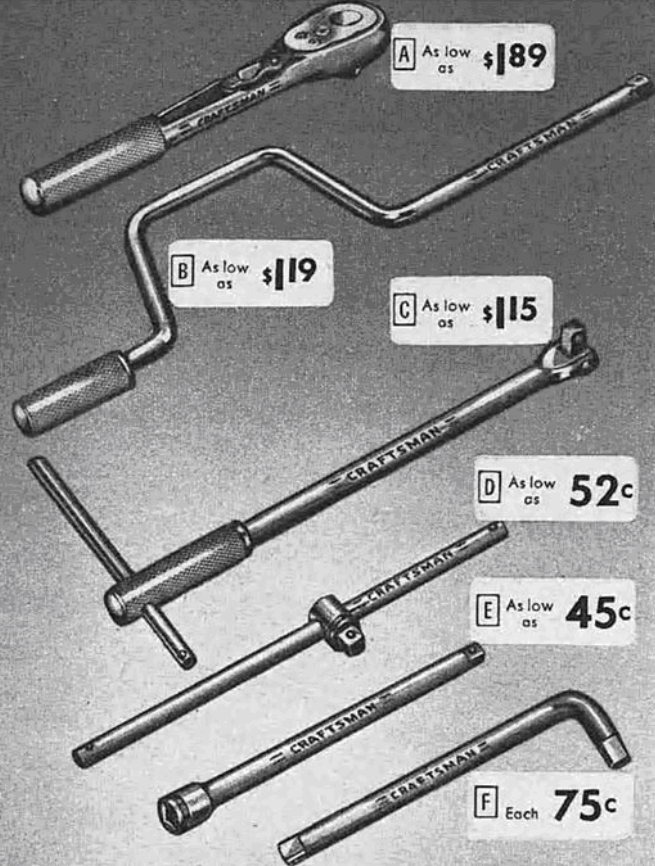
1/4-in. square drive parts. Seven 6-point sockets (7/32 to 7/16-in.); two 8-point sockets (1/4 and 5/16-in.); one reversible ratchet; and a 6-in. flex "T" handle with crossbar.

3/4-in. square drive parts. Five 8-point sockets (1/4 to 1/2-in.); seven 12-point sockets (3/8 to 1 1/4-in.); three socket extensions (3, 6 and 11-in.); 16-in. speeder wrench; 10-in. flex "T" handle with crossbar; 7 1/2-in. slide bar handle; reversible ratchet, and universal joint.

1/2-in. square drive parts. Thirteen 12-point sockets (7/16 to 1 3/4-in.); five 8-point sockets (1/2 to 1 1/4-in.); three socket extensions (2 1/2, 5 and 10-in.); 18-in. speeder wrench; 15-in. flex "T" handle with crossbar; 9-in. slide bar handle; reversible ratchet, and universal joint.

Miscellaneous Tools. Six open-end wrenches (3/4 x 7/8, 1 1/2 x 1 1/8, 1 3/4 x 1 1/2, 2 x 1 1/4, 2 1/2 x 1 1/2, 3 x 1 1/2-in.); six long box-end wrenches (3/4 x 7/8, 1 1/2 x 1 1/8, 1 3/4 x 1 1/2, 2 x 1 1/4, 2 1/2 x 1 1/2, 3 x 1 1/2-in.); three short box-end wrenches (3/4 x 7/8, 1 1/2 x 1 1/8, 1 3/4 x 1 1/2-in.); two tappet wrenches (3/4 x 7/8, 1 1/2 x 1 1/8-in.); one 9-in. lever-jaw wrench; 5-piece punch and chisel set; 16-in. pry bar; three amber handle screwdrivers (4, 6 and 8-in.); two ball pen hammers (8 and 12-ounce); one quick-adjusting hack saw; and one portable steel cabinet, size 10 1/2 x 10 1/2 x 23 inches. Cabinet is heavy sheet steel construction; has two extra-deep drawers which glide smoothly on easy-action slide rails, a strong 7 1/2 x 19-in. tote tray, and a cylinder lock with two keys. Attractive rust resisting machinery gray finish.

99 PCM 4345—Shipping weight 70 pounds. 90-piece set \$78.50



A As low as \$1.89

B As low as \$1.19

C As low as \$1.15

D As low as 52c

E As low as 45c

F Each 75c

CRAFTSMAN SOCKET WRENCHES

Same super-quality wrenches as shown in the socket wrench sets on preceding pages

CRAFTSMAN Ratchet Wrenches

- A Free working ratchet instantly reversible, right or left, with easy operating thumb lever; no lost motion; no accidental tripping. Speeds production. High polished finish.
- 9 PC 4495— $\frac{1}{4}$ -inch square drive. 4 $\frac{1}{2}$ in. long. Shpg. wt. 8 oz. \$1.89
 - 9 PC 4429— $\frac{3}{8}$ -inch square drive. 6 in. long. Shpg. wt. 1 lb. 2.98
 - 9 PC 4417— $\frac{1}{2}$ -inch square drive. Not reversible; without adapter. $\frac{1}{2}$ -in. square opening. 10 in. long. Shpg. wt. 1 lb. 9 oz. \$2.49
 - 9 PC 4419— $\frac{1}{2}$ -inch square drive. Reversible ratchet with stud. 10 in. long. Shpg. wt. 1 lb. 8 oz. 4.19
 - 9 PC 4480— $\frac{3}{4}$ -inch square drive. 18 $\frac{1}{2}$ in. long. Shpg. wt. 6 lbs. 8 oz. 9.25

CRAFTSMAN Speeder Wrenches

- B Designed to speed up work. Full swing; ample leverage and clearance.
- 9 PC 4427— $\frac{3}{8}$ -inch square drive. 16 in. long. Shipping wt. 1 lb. \$1.19
 - 9 PC 4416— $\frac{1}{2}$ -inch square drive. 16 $\frac{1}{2}$ in. long. Shpg. wt. 2 lbs. 4 oz. 1.65

CRAFTSMAN Flex "T" Handles

- C Four tools in one... swivel handle, offset joint, "T" handle, and nut spinner. Swivel joint. With crossbar.
- 9 PC 4352— $\frac{1}{4}$ -inch square drive. 6 in. long. Shpg. wt. 5 oz. \$1.15
 - 9 PC 4436— $\frac{3}{8}$ -inch square drive. 10 in. long. Shpg. wt. 1 lb. 1.95
 - 9 PC 4420— $\frac{1}{2}$ -inch square drive. 15 in. long. Shpg. wt. 2 lbs. 6 oz. 2.29
 - 18 in. long. Shpg. wt. 2 lbs. 8 oz. \$3.15
 - 9 PC 4431— $\frac{3}{4}$ -inch square drive. No crossbar. 18 in. long. Shpg. wt. 4 lbs. \$4.85

CRAFTSMAN Slide Bar Handles

- D Can be used as "T" or "L" handles.
- 9 PC 4354— $\frac{1}{4}$ -inch square drive. 4 $\frac{1}{2}$ in. long. Shpg. wt. 4 oz. 52c
 - 9 PC 4428— $\frac{3}{8}$ -inch square drive. 7 $\frac{1}{2}$ in. long. Shpg. wt. 8 oz. 85c
 - 9 PC 4415— $\frac{1}{2}$ -inch square drive. State size. 9 in. long. Shipping wt. 1 lb. \$1.15
 - 15 in. long. Shpg. wt. 1 lb. 12 oz. \$1.25
 - 9 PC 4443— $\frac{3}{4}$ -inch square drive. 18 in. long. Shipping wt. 5 lbs. \$2.19

CRAFTSMAN Extension Bars

- E With lock-on feature, to give same service as a one-piece tool. Please order by catalog number and state size wanted.
- 9 PC 4353— $\frac{1}{4}$ -inch square drive. 3 in. long. Shipping weight 2 oz. 45c
 - 6 in. long. Shipping weight 4 oz. 49c
 - 9 PC 4426— $\frac{3}{8}$ -inch square drive. 3 in. long. Shipping weight 4 oz. 45c
 - 6 in. long. Shipping weight 8 oz. 59c
 - 11 in. long. Shipping weight 1 lb. 85c
 - 20 in. long. Shpg. wt. 2 lbs. 4 oz. \$1.25
 - 9 PC 4413— $\frac{1}{2}$ -inch square drive. 2 $\frac{1}{2}$ in. long. Shipping weight 6 oz. 59c
 - 5 in. long. Shipping weight 10 oz. 75c
 - 10 in. long. Shpg. wt. 1 lb. 2 oz. 89c
 - 20 in. long. Shpg. wt. 2 lbs. 2 oz. \$1.59
 - 9 PC 4441— $\frac{3}{4}$ -inch square drive. 8 in. long. Shipping wt. 2 lbs. \$1.59
 - 9 PC 4442— $\frac{3}{4}$ -inch square drive. 16 in. long. Shipping wt. 4 lbs. 1.79

CRAFTSMAN Ell Handle

- F $\frac{1}{2}$ -inch square drive. For use with spark plug sockets listed at bottom of page. Length, 8 inches. 1 $\frac{1}{2}$ -inch bend to clear obstructions or reach sunken nuts.
- 9 PC 4402—Shipping weight 12 oz. 75c



CRAFTSMAN SOCKETS... Same super-quality as in sets on preceding pages

$\frac{1}{4}$ -inch Sockets

- G CRAFTSMAN. Square drive. 6-point openings for hexagonal nuts. Mid-range sizes for ignition, carburetor, radio, etc.

9 PC 4350—Please state size.

Size	Shpg. wt.	Each
$\frac{3}{16}$ -inch	2 ounces	19c
$\frac{7}{32}$ -inch	2 ounces	19c
$\frac{1}{8}$ -inch	2 ounces	19c
$\frac{9}{32}$ -inch	2 ounces	19c
$\frac{5}{16}$ -inch	3 ounces	19c
$\frac{11}{32}$ -inch	3 ounces	19c
$\frac{3}{8}$ -inch	3 ounces	19c
$\frac{7}{16}$ -inch	3 ounces	19c

$\frac{3}{8}$ -inch Sockets

- H CRAFTSMAN. Square drive. 8-point openings for square nuts. Light, yet strong and durable. One of the handiest sizes... you'll find countless uses for it around the shop and garage.

9 PC 4434—Please state size.

Size	Shpg. wt.	Each
$\frac{1}{4}$ -inch	3 ounces	29c
$\frac{5}{16}$ -inch	3 ounces	29c
$\frac{3}{8}$ -inch	3 ounces	29c
$\frac{7}{16}$ -inch	3 ounces	29c
$\frac{1}{2}$ -inch	3 ounces	29c

$\frac{3}{8}$ -inch Sockets

- J CRAFTSMAN. Square drive. 12-point openings for hexagonal nuts. An especially popular size for many uses in the shop or on the farm.

9 PC 4433—Please state size.

Size	Shpg. wt.	Each
$\frac{7}{16}$ -inch	3 ounces	29c
$\frac{1}{2}$ -inch	3 ounces	29c
$\frac{9}{16}$ -inch	3 ounces	29c
$\frac{5}{8}$ -inch	4 ounces	29c
$\frac{11}{16}$ -inch	4 ounces	29c
$\frac{3}{4}$ -inch	4 ounces	29c

CRAFTSMAN $\frac{1}{2}$ -inch Sockets

- K Square drive. 12-point openings for hexagonal nuts. Most popular drive.

9 PC 4421—Please state size wanted.

Size	Shpg. wt.	Each	Size	Shpg. wt.	Each
$\frac{7}{16}$ -in.	4 oz.	37c	$\frac{13}{16}$ -in.	6 oz.	47c
$\frac{1}{2}$ -in.	4 oz.	37c	$\frac{3}{4}$ -in.	6 oz.	47c
$\frac{9}{16}$ -in.	4 oz.	37c	$\frac{15}{16}$ -in.	7 oz.	57c
$\frac{5}{8}$ -in.	5 oz.	37c	1-in.	8 oz.	57c
$\frac{11}{16}$ -in.	5 oz.	37c	$\frac{1 1}{16}$ -in.	8 oz.	57c
$\frac{3}{4}$ -in.	5 oz.	47c	$\frac{1 1}{8}$ -in.	8 oz.	57c
	6 oz.	47c			

Square drive. As above, but 8-point openings for square nuts. Sizes: $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{1 1}{8}$ or $\frac{3}{4}$ -inch. Please state size.

9 PC 4422—Shpg. wt. 6 oz. Each 39c

CRAFTSMAN $\frac{3}{4}$ -inch Sockets

- L Square drive. 12-point openings for hexagonal nuts. Big, heavy duty sockets for work on tractors, trucks, buses, and heavy farm and industrial machinery. Every garage and repair shop will find many uses for these.

9 PC 4444—Please state size wanted.

Size, in.	Shpg. wt.	Each	Size, in.	Shpg. wt.	Each
$\frac{1 1}{16}$	9 oz.	\$0.85	$\frac{1 3}{8}$	1 lb.	\$1.45
$\frac{1 1}{2}$	10 oz.	.89	$\frac{1 1}{2}$	1 lb. 8 oz.	1.98
$\frac{1 5}{8}$	10 oz.	.98	$\frac{1 3}{4}$	2 lbs.	2.15
$\frac{1 7}{8}$	12 oz.	1.09	$\frac{1 3}{4}$	2 lbs. 4 oz.	2.35
$\frac{1 9}{8}$	14 oz.	1.15	$\frac{1 7}{8}$	2 lbs. 8 oz.	2.45
$\frac{1 11}{8}$	15 oz.	1.35	2	3 lbs.	2.79
$\frac{1 3}{4}$	15 oz.	1.39			



Universal Joints

- M CRAFTSMAN. Same high quality as sockets above, to handle the toughest jobs. Make it easier to do work in difficult positions. Compact design; all unnecessary bulk eliminated; allows freedom of movement in tight places. Joint swings at any angle up to 90 degrees, to reach hard-to-get-at places.
- 9 PC 4435— $\frac{1}{2}$ -in. square drive. Shpg. wt. 3 oz. \$1.15
 - 9 PC 4425— $\frac{1}{2}$ -in. square drive. Shpg. wt. 10 oz. \$1.19

CRAFTSMAN Flexible Sockets

- N Square drive. 12-point sockets and universal joints combined. For hexagonal nuts. Order by catalog number and state size wanted.

Size	Shpg. wt.	9 PC 4439 $\frac{3}{8}$ -in. drive	9 PC 4404 $\frac{1}{2}$ -in. drive
$\frac{3}{8}$ -inch	3 oz.	\$1.29	
$\frac{7}{16}$ -inch	3 oz.	1.29	
$\frac{1}{2}$ -inch	4 oz.	1.29	
$\frac{9}{16}$ -inch	4 oz.	1.29	
$\frac{5}{8}$ -inch	5 oz.	1.29	\$1.65
$\frac{11}{16}$ -inch	5 oz.	1.29	1.65
$\frac{3}{4}$ -inch	5 oz.	1.29	1.65

9 PC 4381—7-piece set. One each of 9 PC 4439. Shpg. wt. 1 lb. 5 oz. \$9.29

CRAFTSMAN Spark Plug Sockets

- P $\frac{1}{2}$ -inch square drive. 12-point openings for hexagonal nuts. Extra deep sockets to reach deep-recessed spark plugs. Also ideal for other hard-to-get-at places where a long reach is necessary.

9 PC 4424—Please state size wanted.

Size	Shpg. wt.	Each	Size	Shpg. wt.	Each
$\frac{1}{2}$ -in.	6 oz.	.75c	$\frac{3}{4}$ -in.	8 oz.	\$0.98
$\frac{9}{16}$ -in.	6 oz.	.75c	$\frac{15}{16}$ -in.	9 oz.	1.09
$\frac{5}{8}$ -in.	6 oz.	.75c	1-in.	10 oz.	1.25
$\frac{11}{16}$ -in.	7 oz.	.75c	$\frac{1 1}{16}$ -in.	14 oz.	1.29
$\frac{3}{4}$ -in.	8 oz.	.85c	$\frac{1 1}{8}$ -in.	15 oz.	1.35
$\frac{13}{16}$ -in.	8 oz.	.95c			

9 PC 4383—12-piece set. One each of above sizes, and "L" handle. In metal box. Shpg. wt. 9 lbs. 2 oz. \$11.75

CRAFTSMAN Extra-deep Sockets

- R $\frac{3}{4}$ -inch square drive. 12-point openings for hex nuts. Designed for hard-to-reach sunken nuts. Straight, thin-wall construction. Highly polished.

9 PC 4438—Please state size wanted.

Size	Shipping weight	Each
$\frac{3}{8}$ -inch	3 ounces	45c
$\frac{7}{16}$ -inch	3 ounces	45c
$\frac{1}{2}$ -inch	3 ounces	49c
$\frac{9}{16}$ -inch	4 ounces	49c
$\frac{5}{8}$ -inch	4 ounces	55c
$\frac{11}{16}$ -inch	5 ounces	59c
$\frac{3}{4}$ -inch	5 ounces	65c

9 PC 4317—7-piece set. One each of above sizes. In handy metal box. Shipping weight 1 pound 8 ounces. \$3.79

IGNITION TOOLS

Ideal for tricky jobs on ignition, carburetor, radio, appliances, etc.

CRAFTSMAN 8-piece Ignition Wrench Set

1. Thin, tapered head to reach the tight, hard-to-get-at places
2. "Super-Tuff" steel, heat treated and hardened... light yet strong
3. Accurately broached for snug fit... offset head to clear obstructions

A Professional quality... indispensable for speedy ignition work in garage or service station. Box wrench on one end; open-end wrench on the other, offset for clearance of obstructions. Duplicate openings... milled to close tolerances... fit perfectly. "Super-Tuff" alloy steel heat treated and hardened for extra strength—rugged yet lightweight. Rust-resisting satin chromium plated finish; highly polished heads; 12-point openings on box ends. Includes sizes: $\frac{1}{32}$ to $\frac{1}{16}$ in. Lengths 3 to $3\frac{1}{4}$ in. 9 PC 4483—Shipping weight 12 ounces. 8-piece set \$1.69

DUNLAP 8-piece Ignition Wrench Set (Not shown). A good quality, handy set... ideal for the home mechanic. Box wrench on one end; offset open end wrench on other—duplicate openings. Heat-treated steel. Has 12-point openings on box ends. Sizes and lengths same as 9 PC 4483 CRAFTSMAN set described above. Rust-resisting finish. 9 PC 4475—Shipping weight 12 ounces. 8-piece set 98c

DUNLAP 15-piece Ignition Set

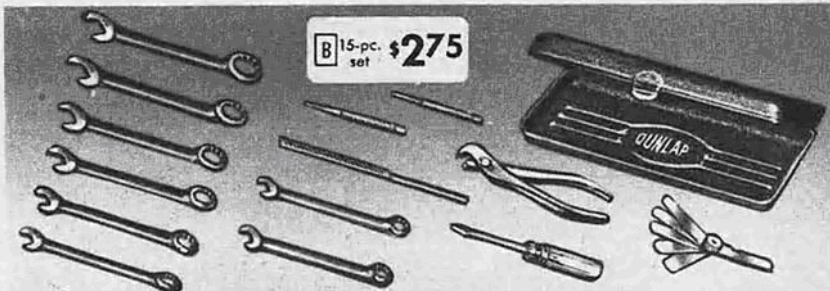
B No really up-to-date garage can afford to be without this carefully selected 15-piece ignition wrench set... especially designed for speedier repair work on magnetos, coils, distributors, etc... contains almost every tool required for a complete ignition repair job. All parts accurately made of high quality steel. Set includes: 8 combination box and open-end midget ignition wrenches ($\frac{1}{32}$ to $\frac{1}{16}$ inch openings); $\frac{1}{4}$ -inch ignition plier; midget screwdriver; 6-leaf thickness gauge; ignition file; center punch, and pin punch. Entire set comes packed in steel box. 9 PC 4467—Shipping weight 1 pound 6 ounces... 15-piece set... \$2.75

CRAFTSMAN Ignition File. Exceptionally thin and flexible. Double-cut; fine, keen teeth. Length 5 inches. Please state quantity wanted in your order. Shipping weight each 4 ounces. 9 PC 6740... Each 12c; 3 for 29c

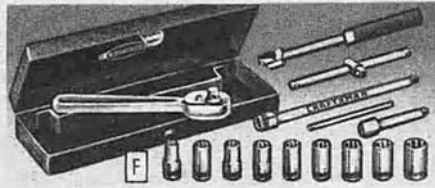
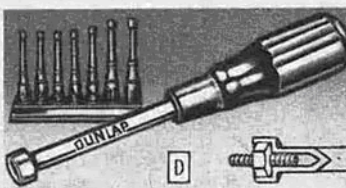
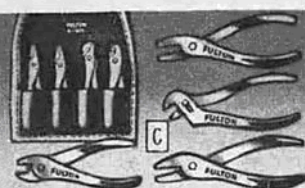
CRAFTSMAN
THE RIGHT WAY
TO SAY
HARDWARE
AND TOOLS



A 8-pc. set \$1.69



B 15-pc. set \$2.75



SPECIAL TOOLS . . . For auto mechanics, electricians, radio repairmen, etc.

4-piece Tiny Plier Set

C A fine set for auto mechanics, electricians, radio repair men, and others doing close, small work. Thin jaws make it easy to reach close, out-of-the-way places. Positive grip permits either fine adjustment or strong pull.

Set includes: standard plier; parrot-beak slip joint plier; needle-point plier; and flat-nose plier. All made of strong steel, tempered and hardened. Milled jaws; knurled handles. Each $\frac{1}{2}$ inches long. In fabric kit. Shpg. wt. 1 lb. 9 PC 4671—4-piece set... \$2.10

7-pc. "Spinite" Wrench Set

D DUNLAP. Wrenches that work like screwdrivers. For hard-to-reach places in radio, auto, aircraft and electrical appliance work. Tightens or loosens difficult nuts quickly. Perfectly broached for snug, non-slip fit. Large hardwood handle, ribbed to provide secure grip.

Made from "Super-Tuff" steel, heat treated and hardened for hard service. Set includes the 7 most needed sizes: $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{11}{32}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ inch. With handy hardwood stand. Shipping weight 2 pounds. 9 PC 4373... 7-piece set \$3.25

11-pc. Midget Wrench Set

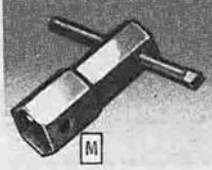
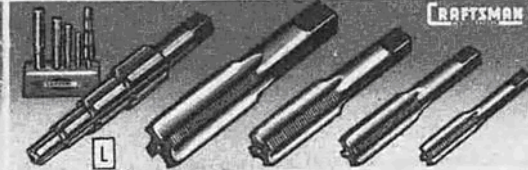
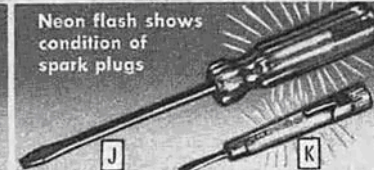
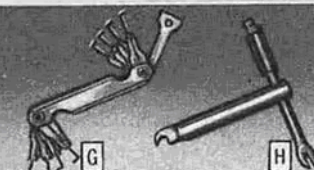
E CRAFTSMAN. $\frac{1}{4}$ -inch square drive. An 11-piece midget wrench set no mechanic should be without if doing carburetor, refrigerator, ignition or radio work. Contains all parts necessary to do a small job in a big way. Made from "Super-Tuff" steel, heat treated and tempered for strength. Extra thin sockets for getting in close places. Accurate openings for non-slip fit.

11-piece set includes: seven 6-pt. sockets ($\frac{1}{32}$ to $\frac{1}{16}$ inch); two 8-pt. sockets ($\frac{1}{4}$ and $\frac{5}{16}$ inch); flex "T" handle with cross bar; steel box. Shpg. wt. 15 oz. 9 PC 4406... 11-piece set \$3.25

CRAFTSMAN 15-piece Midget Wrench Set

F $\frac{1}{4}$ -inch square drive. A splendid midget wrench set... extremely popular for ignition, refrigerator, oil burner, aircraft work, etc. It makes small difficult repair and assembly jobs so easy! All parts made of "Super-Tuff" steel carefully heat treated for added strength. Fully guaranteed against breakage due to defects in materials or workmanship. Extra-thin side wall construction of sockets to get into tight places... openings precision-broached to insure a perfect, non-slip fit.

15-piece set includes the following: seven 6-pt. sockets ($\frac{1}{32}$ to $\frac{1}{16}$ inch); two 8-point sockets ($\frac{1}{4}$ and $\frac{5}{16}$ inch); reversible ratchet; flex "T" handle with cross bar; two extension handles (3 and 6 inch); slide bar handle, and strong steel tool box. Shipping weight 2 lbs. 4 oz. 9 PC 4414... 15-piece set \$6.49



Plug Gap Gauge

G Check spark plug gaps, save gasoline. Includes 8 different wire gauges, electrode wrench, gap clearance table for all popular make cars. 9 PC 4075—Shipping wt. 4 oz... 29c

Ignition Point Tool

H Accurately aligns both stationary and movable points in all types of distributors. Sliding sleeve end for high speed arms; forked end for channel type; milled and slotted end for stationary points. 9 PC 4737—Shipping wt. 6 oz... \$2.35

Spark Plug Testing Screwdrivers

Touch tip of this screwdriver blade against spark plug cap, and it lights up if your plugs are good. Has neon testing bulb built into shockproof, transparent plastic handle. 4-inch 27c

J 9-inch Tester-Screwdriver. Shockproof 4-inch handle holds 5-inch tempered steel bit securely. Over-all length 9 inches. 9 PC 4124—Shipping weight 6 ounces... 75c

K 4-inch Tester-Screwdriver with pocket clip. Shockproof plastic handle holds 1 1/2-inch tempered steel bit securely. Over-all length 4 inches. 9 PC 4123—Shipping weight 4 ounces... 27c

CRAFTSMAN 5-piece Spark Plug Tap Set

L For re-tapping spark plug holes in aluminum heads when threads become damaged. Set consists of one 10-mm. tap; one 14-mm. tap; one 18-mm. tap; one 24-mm. tap; and one 4-step reamer. The reamer is used when threads are badly stripped... much better than a drill, as it reams hole to the next size larger. Can be used with wrench or in an electric drill. Real professional quality in every detail and does a professional job. In special wood block. Shpg. wt. 1 lb. 8 oz. 9 PC 5455—5-piece set... \$7.19
9 PC 5494—10-mm. tap only. Shpg. wt. 6 oz... 65c
9 PC 5495—14-mm. tap only. Shpg. wt. 7 oz... 95c
9 PC 5496—18-mm. tap only. Shpg. wt. 9 oz... \$1.35

Spark Plug Wrench

M Four sizes: $\frac{9}{16}$ x $\frac{11}{16}$ in. to fit 10-mm. plug; $\frac{7}{8}$ x $\frac{11}{8}$ in. to fit 14-mm. plug; $\frac{15}{16}$ x $\frac{11}{16}$ in. to fit 18-mm. plug; $\frac{13}{16}$ x $\frac{11}{16}$ in. to fit 24-mm. plug. Handles included. State size wanted, or name of spark plug, make, year and model of car. Shpg. wt. 11 oz. 9 PC 4430—Each... 30c
9 PC 4432—Set of 4. One each of above in metal box. Shpg. wt. 2 lbs. 12 oz... Set \$1.95



Set of 6
\$389

Thin, tapered heads

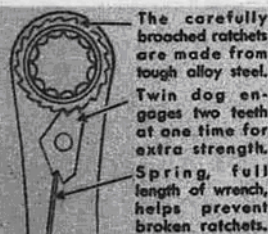
THE GREATEST NAME IN TOOLS



Set of 6
\$479

Deep offset heads

THE GREATEST NAME IN TOOLS



The carefully broached ratchets are made from tough alloy steel. Twin dog engages two teeth at one time for extra strength. Spring, full length of wrench, helps prevent broken ratchets.



Set of 5
\$485

CRAFTSMAN OPEN AND BOX END WRENCHES

Great post-war improvements!
Now in stands for easy selection

- More streamlined for easier handling; lighter yet super-strong
- Heads designed to reach hard-to-get-at nuts; openings milled for perfect, non-slip fit; handles longer for greater leverage
- "Super-Tuff" steel, heat treated and hardened for extra strength
- Wrench sets in new, handy metal stands for easier selection

CRAFTSMAN 6-piece Open-End Wrench Set

A The superior professional quality demanded by master mechanics now in a handy metal stand for fast, easy selection. Thin, pear shaped heads, scientifically designed to reach and turn hard-to-get-at nuts. Openings milled to close tolerances; fit perfectly. Drop forged "Super-Tuff" steel, heat treated and hardened for extra strength. Rust-resisting, satin chrome plated finish. Polished heads and panels. Sizes: $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, $\frac{7}{8}$ -, 1 -inch. Lengths 5 to 10 inches.

9 PC 4454—6-piece set in stand. Shpg. wt. 2 lbs. 8 oz. \$3.89

Opening Size	Length	Shpg. wt.	Each	Opening Size	Length	Shpg. wt.	Each
$\frac{3}{8}$ in.	4 $\frac{1}{2}$ in.	2 oz.	37c	$\frac{1}{2}$ in.	8 $\frac{1}{2}$ in.	8 oz.	72c
$\frac{1}{2}$ in.	5 in.	2 oz.	42c	$\frac{5}{8}$ in.	10 in.	10 oz.	79c
$\frac{3}{4}$ in.	5 $\frac{1}{2}$ in.	3 oz.	47c	$\frac{7}{8}$ in.	11 in.	14 oz.	95c
$\frac{15}{16}$ in.	6 $\frac{1}{2}$ in.	5 oz.	52c	1 in.	11 $\frac{1}{2}$ in.	1 lb.	\$1.19
$\frac{19}{32}$ in.	7 $\frac{1}{2}$ in.	7 oz.	62c				

CRAFTSMAN 6-piece Box-End Wrench Set

B Professional quality... and now in a convenient metal stand. Wrenches drop forged of "Super-Tuff" steel, heat treated and hardened for greater strength. 12-point openings accurately broached for perfect, non-slip fit. Longer handles give greater leverage. Rust resisting, satin chrome plated finish. Polished heads and panels. Sizes: $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, $\frac{7}{8}$ -, 1 -inch. Lengths $7\frac{1}{2}$ to 14 $\frac{1}{2}$ inches.

9 PC 4391—6-piece set in stand. Shpg. wt. 3 lbs. 4 oz. \$4.79

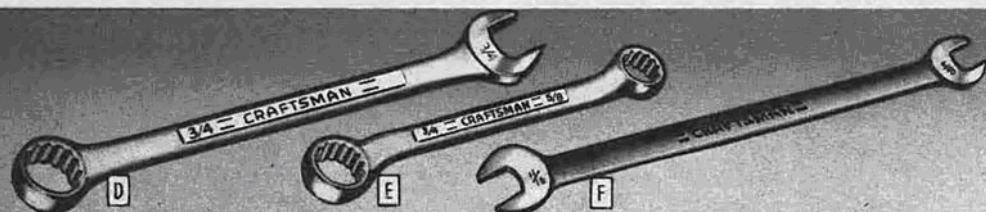
Opening Size	Length	Shpg. wt.	Each	Opening Size	Length	Shpg. wt.	Each
$\frac{3}{8}$ in.	7 $\frac{1}{2}$ in.	5 oz.	52c	$\frac{1}{2}$ in.	11 in.	10 oz.	\$0.87
$\frac{1}{2}$ in.	8 $\frac{1}{2}$ in.	6 oz.	62c	$\frac{5}{8}$ in.	12 in.	13 oz.	.92
$\frac{3}{4}$ in.	9 $\frac{1}{2}$ in.	6 oz.	63c	$\frac{7}{8}$ in.	14 $\frac{1}{2}$ in.	1 lb.	.97
$\frac{15}{16}$ in.	10 $\frac{1}{2}$ in.	6 oz.	67c	1 in.	15 $\frac{1}{2}$ in.	1 lb. 10 oz.	1.85
$\frac{19}{32}$ in.	10 $\frac{1}{2}$ in.	7 oz.	75c	$1\frac{1}{8}$ in.	17 in.	2 lbs.	2.15
$\frac{11}{16}$ in.	10 $\frac{1}{2}$ in.	9 oz.	82c				

DUNLAP 5-piece Ratchet Wrench Set

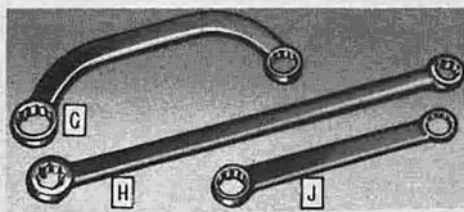
C Exceptionally handy ratchet type wrenches that turn nuts in tight places without once removing wrench from the nut... speed up tough jobs... help prevent "barked" knuckles. Especially useful for car owners; will fit 95% of nuts on average car. Ideal for farmers, garage mechanics, repair men, etc. Tough alloy steel ratchets have accurate 12-point openings for non-slip fit. Strong spring, full length of wrench means fewer broken ratchets. Husky steel frames, zinc finished to resist rust. Sizes: $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, $\frac{7}{8}$ -, 1 -inch. Lengths 4 $\frac{1}{2}$ to 9 $\frac{1}{2}$ in. Set complete with handy artificial leather case.

9 PC 4385—5-piece set in case. Shpg. wt. 2 lbs. \$4.85

Openings	Length	Shipping weight	Each
$\frac{3}{8}$ in.	4 $\frac{1}{2}$ inches	6 ounces	.85c
$\frac{1}{2}$ in.	5 $\frac{1}{2}$ inches	6 ounces	.89c
$\frac{5}{8}$ in.	6 $\frac{1}{2}$ inches	9 ounces	.98c
$\frac{3}{4}$ in.	8 inches	11 ounces	\$1.05
$\frac{15}{16}$ in.	9 $\frac{1}{2}$ inches	12 ounces	1.35



Set of 5
\$485



CRAFTSMAN WRENCHES... Combination, Short Box End, Automotive Wrenches

D Professional quality. Both ends same size opening. Box end offset 15°; open end set at standard 15° angle. Strong, thin tapered heads. "Super-Tuff" steel, heat treated and hardened. Zinc plated; polished heads and panels.

9 PC 4469—Please state opening size

Open. size	Length	Shpg. wt.	Each
$\frac{3}{8}$ in.	5 $\frac{1}{2}$ in.	2 ounces	.52c
$\frac{1}{2}$ in.	6 in.	4 ounces	.59c
$\frac{5}{8}$ in.	6 $\frac{1}{2}$ in.	5 ounces	.65c
$\frac{3}{4}$ in.	7 $\frac{1}{2}$ in.	6 ounces	.72c
$\frac{15}{16}$ in.	8 $\frac{1}{2}$ in.	8 ounces	.79c
1 in.	9 $\frac{1}{2}$ in.	10 ounces	.85c

E CRAFTSMAN Short Box End Wrenches. Professional quality. Heads set at correct pitch for handle to clear obstructions and to reach sunk nuts. Short stubby handle speeds up work in close quarters, such as on manifolds, starters, water pumps, universal joints, etc. Heads offset at 45°. 12-pt. openings for hex nuts; accurately broached. "Super-Tuff" steel, heat treated and hardened. Zinc plated; polished head and panels.

9 PC 4386—Please state opening size

Open. size	Length	Shpg. wt.	Each
$\frac{3}{8}$ in.	4 $\frac{1}{2}$ in.	1 oz.	.52c
$\frac{1}{2}$ in.	5 $\frac{1}{2}$ in.	2 oz.	.57c
$\frac{5}{8}$ in.	6 in.	4 oz.	.65c

F CRAFTSMAN Tappet Wrenches. Professional quality. May be used on all makes of cars. Drop forged tough alloy steel assures extra strength and long life. Scientifically designed pear shaped heads get into tight places easier. Openings accurately milled to close tolerances for perfect non-slip fit. Tough, rust-resistant finish. Polished heads. Length 10 inches. Shipping weight each 4 oz.

9 PC 4447—Please be sure to state size wanted when ordering.

Opening sizes	Shpg. wt.	Each
$\frac{1}{16}$ in.	5 oz.	.57c
$\frac{1}{8}$ in.	5 oz.	.57c
$\frac{1}{4}$ in.	6 oz.	.65c

G Starter and Manifold Wrench. Fit carburetor, starter and manifold nuts on most cars. Strongly made of carbon steel. Length 7 $\frac{1}{2}$ in. 12-pt. openings. Shpg. wt. each 6 oz.

9 PC 4376— $\frac{9}{16}$ and $\frac{5}{8}$ -inch openings. 69c

9 PC 4377— $\frac{3}{4}$ and $\frac{15}{16}$ -inch openings. 85c

H Brake Adjustment Wrench. Fits all Ford passenger cars and trucks with mechanical brakes. Strong carbon steel. 8-point $\frac{1}{16}$ and $\frac{1}{8}$ -inch openings. 10 $\frac{3}{4}$ inches long.

9 PC 4384—Shipping weight 10 oz. 69c

J Battery Wrench. One end is extra thin to grip battery terminal nuts; other end fits starter nut. Strongly made of carbon steel. 12-point $\frac{1}{16}$ and $\frac{1}{8}$ -inch openings, cleanly broached. 6 inches long.

9 PC 4380—Shipping weight 5 oz. 55c

NEW! A CRAFTSMAN LEVER-JAW WRENCH

New design . . . New chromium finish
Many tools in one! Over 1000-lb. grip!

- Great new improvements! Now more than ever the handiest type of wrench you can buy . . . and a greater value than ever.
- Improved streamlined design . . . you can get at those tight places so much easier and faster and do the job so much better.
- New thin forged steel jaws . . . milled teeth; heat treated and hardened . . . super strong to stand up under the tough jobs.

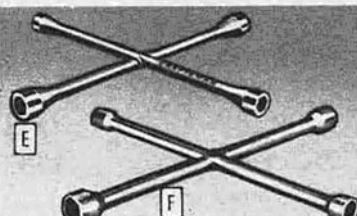
A If you thought our Lever-Jaw Wrench was great before—just try this new CRAFTSMAN! It's handier and better than ever. Does so many jobs easier, faster and better. It's the perfect tool, with hundreds of uses for home owners, farmers, mechanics, plumbers, etc. Improved thin jaws get into tight places easier. Double leverage gives over 1000 pounds pressure at the jaws. Ideal for removing cotter keys, broken or rusted studs, stubborn nuts, etc. As a portable vise it holds work tightly for many welding, drilling, soldering and grinding jobs. Strong steel construction. Forged steel jaws have milled, hardened teeth for positive grip. New chrome plated satin finish; rust-resisting.

9 PC 4490—Please be sure to state size wanted.
9-inch size; (fully open, 10 in.). Jaws open to 1 1/4 in. Shpg. wt. 1 lb. 8 oz. . . \$1.95
12-inch size; (fully open, 13 in.). Jaws open to 1 3/4 inches. Shpg. wt. 2 lbs. . . 2.75

DUNLAP Lever-Jaw Wrench

B A great value at this low price! Similar to best quality CRAFTSMAN Lever-Jaw Wrench described above, but cadmium plated, has same capacity and strength. Jaws open to 1 1/4 in.

9 PC 4497—9-inch size; (fully open, 10 inches). Shipping weight 1 lb. 8 oz. . . \$1.59



CRAFTSMAN WRENCHES . . . Adjustable end, pipe, rim and torque Wrenches

C CRAFTSMAN Pipe Wrenches. Professional quality. Actually exceeds twice the load required by Federal Pipe Wrench Specifications GGG-W-551A. Malleable frame housing and handle made in one piece. Extra hard steel jaws easily replaceable. Machine-cut teeth milled deep to grip firmly. Streamlined; eyelet in handle. Painted blue.

9 PC 5563—Please state size wanted.

Size	Takes pipe	Shpg. wt.	Price
8 in.	3/4 in.	14 oz.	\$1.35
14 in.	1 1/2 in.	3 lbs. 10 oz.	2.45
24 in.	2 1/2 in.	9 lbs. 4 oz.	5.49

99 PC 05563
48 in. . . 5 in. . . 28 lbs. . . \$17.50

D Drain Plug Wrench. A real boon to auto mechanics, garage men and car owners. Has 8 sockets which fit all popular makes of cars. Is offset to prevent skinned knuckles. Made of steel; has accurately sized sockets. Chart is included, identifying sockets with corresponding drain plugs. Shpg. wt. 1 lb. 4 oz.

9 PC 4369 . . . 49c

E CRAFTSMAN Cross-Rim Wrench. Strong, drop forged steel, heat treated and hardened. 16-inch arms; powerful leverage. Polished sockets. Fits 3/8, 1/2, 5/8 and 3/4-inch hex nuts. Rust-resisting zinc finish.

9 PC 4472—Shipping weight 3 pounds. . . \$1.19

DUNLAP Cross-Rim Wrench. Not shown. Low priced! Carbon steel with painted finish. Fits 3/8, 1/2, 5/8 and 3/4-inch hex nuts. 13-inch arms.

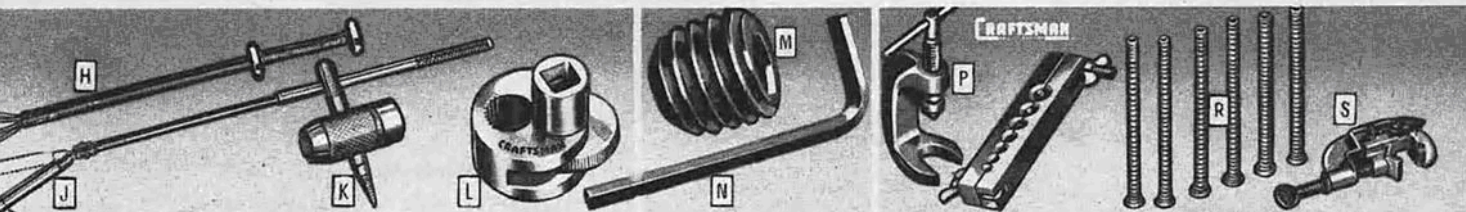
9 PC 4473—Shipping weight 2 pounds 12 oz. . . 89c

F Heavy duty Cross Rim Wrench. For trucks, buses, trailers. 23 1/2-inch arms give tremendous leverage. Forged steel sockets. Two double sockets; one for 3/4-inch hex nuts and 5/8-inch square nuts, other for 1 1/8-inch hex nuts and 1 1/4-inch square nuts. Also has socket for 1 1/2-inch hex nuts; and one for 1 3/4-inch hex nuts. Rust-resisting zinc finish.

99 PC 04496—Shipping weight 12 pounds. . . \$5.15

G CRAFTSMAN Torque Wrenches. Assure correct tension when tightening engine cylinder heads, bearings, spark plugs, etc. Floating handle fixes point of applied load. Horizontal and vertical dials easily read from any working angle—remain accurate for the life of wrench. Made of alloy steel, correctly heat treated and hardened. For 3/4-inch square drive. Chart of recommended values furnished. For best results use correct tool for each job.

9 PC 4450—Shows 0-50 ft. lbs. For spark plugs, etc. Length 16 in. Shpg. wt. 1 lb. 8 oz. . . \$6.45
9 PC 4448—Shows 0-105 ft. lbs. For cylinder heads, motor bearings, etc. Length 19 inches. Shipping weight 4 lbs. 12 oz. . . \$6.89
9 PC 4464—Shows 0-150 ft. lbs. For buses, trucks, tractors, etc. Length 19 inches. Shipping weight 4 pounds 12 ounces. . . \$8.65



MECHANICS' TOOLS . . . For automotive and general repair work

H Grab-All Tool. Handy for recovering objects in inaccessible places. Pressure on thumb button depresses coil spring and opens claws. When released, claws close on dropped object.

9 PC 4133—Please state length wanted.
9-inch length. Shpg. wt. 4 oz. . . 69c
12-inch length. Shpg. wt. 6 oz. . . 79c

K Tire Valve Tool. For removing and replacing tire valve cores, and rethreading inside and outside of valve stem. Core remover has guide; backs out valve inside when shoulders are broken off. Nickel-plated steel. Shpg. wt. 4 oz.

9 PC 4705 . . . 27c

M Hollow-Head Set Screws. Alloy steel. Screw down flush with surface. Shipping wt. each 2 oz.

9 PC 2809—Please state size.

Diam.	Length	Threads to in.	Each
3/8	3/4	20	5c
1/2	1	20	5c
5/16	5/8	18	5c
3/8	3/4	16	5c

N Set Screw Wrenches. For above. Hardened tool steel. Shipping weight each 1 ounce.

9 PC 2813—Please state size.

1/4-inch	5/16-inch	3/8-inch
9c	9c	9c
9c	9c	9c

P CRAFTSMAN Flaring Tool. Seven flaring discs to give all popular sizes of tubing accurate flare and taper. Range 3/16 to 3/8 in. Simple to use—tighten tubing in correct size opening, turn up lock nut on forming spool, screw down T-handle on punch . . . it's done.

9 PC 5535—Shipping weight 2 pounds 8 ounces. . . \$2.59

R 6-piece Tube Bender Set. Bends tubes by hand safely. Oil hardened spring steel. Sizes 1/4 to 3/8 in.

9 PC 5541—Shipping weight 2 pounds 4 oz. . . \$1.59

S Tubing Cutter. Tool steel blade; no ragged edges. Takes any tube up to 1 inch in diameter.

9 PC 5533—Shipping weight 8 ounces. . . \$1.65

9-piece Flaring Tool Set. All the tools for cutting, bending, flaring. Includes (P), (R) and (S) above.

9 PC 5531—Shipping wt. 5 lbs. 9-piece set. . . \$5.15

CRAFTSMAN TOOL BOXES

New, sliding-tray design! One of the greatest improvements in 25 years!

- 1 Strong, chromium-plated tubular steel handle . . . securely attached!
- 2 Full-length piano-type hinges for strength; are smooth and easy-acting!
- 3 Beautiful, streamlined design . . . heavy 22-gauge sheet steel construction . . . attractive, durable, rust-resisting machinery gray crackle finish!
- 4 Simple, efficient combination of slides and levers causes two full-size trays to slide to the sides when box is opened; keep trays from sagging.

\$11.50 One of the finest tool boxes we've ever offered! Ideal for skilled mechanics, engineers, servicemen and householders . . . it's an excellent service kit, tool chest or general utility chest!

New type slide-rail cantilever action causes two full-size trays to glide out to sides of box when it's opened . . . keeps trays from sagging even when fully extended. No need to lift out trays to get at tools in the bottom of the box!

Big and roomy . . . holds many small parts and lots of long tools, too! Size 19½ in. long, 8½ in. wide and 9½ in. deep without handle. One tray is 5¼x14 in.; the other, 6¼x18 in. Trays partitioned to keep small tools and sockets separated.

Beautifully streamlined curved hip-roof construction of heavy duty 22-gauge sheet steel. No sharp edges . . . all corners smoothly rounded . . . all metal edges carefully turned down. Fittings securely machine riveted to box and covers.

Nickel-plated tubular steel handle attached to ends of box . . . not to the covers. Less strain on hinges! Less danger of spilling tools if top of your box should accidentally come open! Full-length piano-type hinges are far stronger than ordinary hinges . . . open and close smoothly! Box may be locked with padlock (not supplied). Durable machinery gray crackle finish.

99 PC 06505—CRAFTSMAN Sliding Tray Tool Box. Shipping weight 14 pounds. . . . \$11.50



CRAFTSMAN
REG. U.S. PAT. OFF.

THE RIGHT WAY
TO SAY
HARDWARE
AND TOOLS

OPEN IT! Presto, trays slide out to the sides automatically! Easier to pick out tools!
CLOSE IT! Trays slide shut under cover automatically . . . out of the way!

CRAFTSMAN Roller Cabinet and Tool Chest Combination Offer

\$56.50 Save \$4.40 by ordering both Cash Roller Cabinet \$6.00 down 99 PCM 4360 and Tool Chest 99 PCM 04382, both described below, for only \$54.50 cash. Bought separately, this combination would cost \$58.90! Shpg. wt. 145 lbs. 99 PCM 4357 . . . Cash \$56.50

CRAFTSMAN Tool Chest

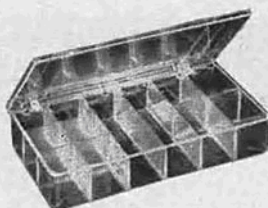
\$23.50 **A** Large size . . . holds 150 to 200 pieces. Size 12¾ x 25¼ x 14 in. Fits on top of Roller Cabinet 99 PCM 4360 below. Reinforced steel construction. Full length "tote" tray, 8x20x3 in. deep. Folding drop front; panel hinged on cover; can be locked. Three easy-gliding drawers, each 11½x22¼ in. . . extra strong slides; will not sag! Drawer stops permit full opening. Top drawer padded with heavy green felt. Two sturdy trunk-type handles. Strong cylinder lock; 2 keys. Machinery gray finish. Shipping weight 53 pounds. 99 PC 04382 . . . Cash \$23.50

Deluxe Roller Cabinet

\$37.50 **B** CRAFTSMAN. Heavy gauge steel cabinet. \$4.00 down doubly reinforced at corners and ends. Rolls easily on 3-inch ball-bearing rubber-tired casters. Easy-action slide rails keep drawers from sagging when open. Over-all dimensions: 17 in. deep, 25 in. wide, 32 in. high. Two drawers 15½x19½x3 in. deep; one drawer 15½x19½x4½ in. deep. Bottom compartment 17x25x10 in. Steel front panel has strong cylinder lock and 2 keys. Rust-resisting machinery gray finish. Shpg. wt. 92 lbs. 99 PCM 4360 . . . Cash \$37.50

Machinists' Tool Chest

\$15.95 **C** CRAFTSMAN. Big, husky and well-made! Size, 10½x10½x23 inches. Holds 100 to 150 pieces. Heavy sheet steel construction; strong chest handles on each end. Two extra-deep drawers glide smoothly on easy-action slide rails. Strong "tote" tray, 7½x19 in., for carrying tools right up to the job! Important and precision tools kept separate. Machinery gray finish. Cylinder lock and 2 keys. Shipping weight 30 pounds. 99 PC 04375 . . . Cash \$15.95



Transparent Plastic Utility Boxes

85¢ Keep small articles where you need them! Use these boxes for holding tacks, screws, buttons, pins, costume jewelry, etc. Fine for carrying fishing tackle—flies, lures, hooks, etc. No need to open box to find what you want . . . these boxes are strongly made of thick, transparent plastic with transparent plastic compartment walls to keep items separated! Snug covers open freely on smooth-working hinges.
9 PC 6523—Small; 9 compartments. 7 in. long; 3½ in. wide; 1½ in. deep. Shpg. wt. 9 oz. . . . 85¢
9 PC 6530—Large; 12 compartments. 8¾ in. long; 4¾ in. wide; 1½ in. deep. Shpg. wt. 11 oz. . . . \$1.09



CRAFTSMAN Machinists' Chests

Open-top style . . . big and roomy!

\$17.95 **D** All-steel Chest. Designed for tool and die makers and general machinists. Lots of room in this big, well-made 20x9x13-inch chest! Heavy duty all-steel construction . . . moisture resistant. Top raises to give roomy, felt-lined compartment for larger tools. Two large, full-size drawers: one 1¼ in. deep. Four small drawers 9x8x1 inch deep; one small drawer 9x8x2½ in. deep . . . all drawers felt-lined to protect sharp-edged tools. When chest is opened, front locking panel slides under bottom drawer out of the way! Built-in tumbler lock; two keys. Strong leather handle . . . comfortable grip. Rust-resisting machinery gray finish. Shipping weight 29 pounds. 99 PC 06522 . . . \$17.95

\$25.35 **E** Hardwood Chest. Ruggedly built of fine-grained cash seasoned hardwood with \$3.00 down hand-rubbed lacquered finish. Locked corner joints . . . heavy corner irons. Size 20x8¾x12¼ inches. Roomy, felt-lined top compartment, 2 inches deep. Four small drawers 8½x6½x1 inch deep; one small drawer 8½x6½x2½ inches deep; two full-size drawers, 1 and 2¼ inches deep . . . all lined with heavy green felt to protect sharp-edged tools. Drawer supports set in grooves; hand-fitted for easy sliding. When chest is opened, front panel slides under bottom drawer . . . out of the way! Felt-lined inside cover has mirror. Durable catches; strong lock and key. Comfortable leather handle. 99 PC 06535—Shpg. wt. 24 lbs. . . . \$25.35

You may buy these items, like everything Sears sells, on Sears Easy Terms . . . you need pay only 10% down



CRAFTSMAN TOOL BOXES

Protect your fine tools from damage
Heavy duty construction throughout

A New CRAFTSMAN Mechanics' Tool Box. Size 19½x7x7½ inches. Holds 75 to 100 socket wrench parts or other hand tools. Modern! Streamlined! Extra heavy duty! A superb new tool box any mechanic will be proud to own. Smooth streamlining makes it a beauty to look at—and eliminates sharp corners to catch in clothing, etc. Our most popular size—ideal for the average mechanic on most jobs. Nickel plated tubular steel handle is attached to ends of box; no strain on hinges when carrying; box may be carried by handle even when open. Divided "Tote" tray, 6½x19 in., helps keep small tools in order. Box is die formed from heavy 22-gauge steel with welded ends for added strength. Full length easy-action piano-type hinges. Attractive rust-resisting machinery gray finish.
99 PC 06521—Shipping weight 12 pounds.....\$7.25

B CRAFTSMAN Mechanics' Tool Box. Size 19x7x7½ inches. Ideal for home use or for factory workers who have to carry around a small assortment of tools from job to job. 24-gauge steel electrically welded for added strength. Full-length, easy-action piano-type hinge. Full-length, lift-out sliding tray. Strong steel handle, hasp and fittings. Rust-resisting machinery gray finish.
99 PC 06511—Shipping weight 9 pounds.....\$3.39

C CRAFTSMAN Mechanics' Tool Box. Size 20x8½x9½ in. Holds 75 to 100 sockets and socket wrench parts; can also be used for other tools. Plenty of room for all the tools a mechanic will need on the job. 22-gauge steel, electrically welded for added strength. Rounded edges. Full-length, easy-action piano-type hinge. Large, partitioned lift-out "tote" tray. Two lever-type latches; hasp with padlock eye. Heavy plastic handle. Machinery gray finish.
99 PC 06512—Shipping weight 13 pounds.....\$4.65

D CRAFTSMAN Hip-roof Tool Box. Size 19x7½x9 inches. Holds 50 to 75 sockets and socket wrench parts, or other hand tools. A popular size with many mechanics. 24-gauge steel, electrically welded for extra strength. Lift-out "tote" tray has heavy round carrying bar and full-length compartment for sockets. Full-length, easy-action piano-type hinge. Heavy reinforced corner irons. Strong steel hasp and fittings. Strong leather handle. Machinery gray finish.
99 PC 06520—Shipping weight 12 pounds.....\$4.29

E CRAFTSMAN Carpenters' Tool Box. Size 30x8½x9 inches. Holds full set of carpenter's tools. Splendid for mechanics and plumbers who use long tools. Heavy 22-gauge steel with 20-gauge steel end plates. Electrically welded for strength. Divided tray for small tools. Wood saw clips in both top and bottom to hold four hand saws. Metal handles on both ends and top. Full-length piano-type hinge. High quality lock and keys. Extra strong loop type side hasps. Rust-resisting machinery gray finish.
99 PC 06517—Shipping weight 20 pounds.....\$7.75



A \$7.25



B \$3.39



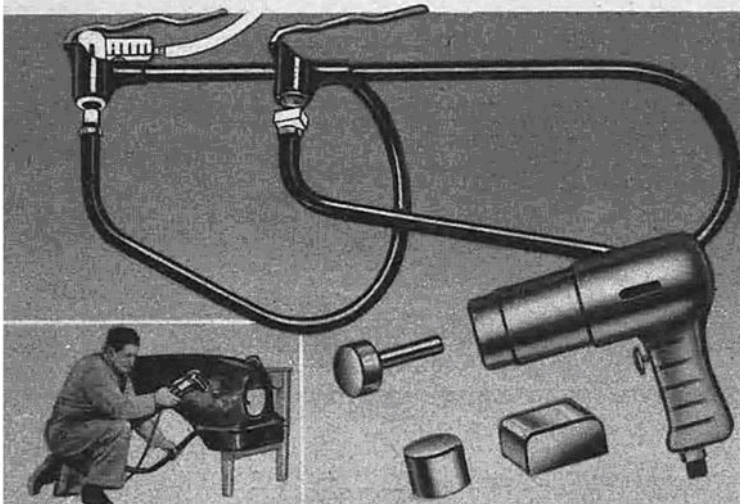
C \$4.65



D \$4.29



E \$7.75



CRAFTSMAN Pneumatic Body and Fender Set

New and exclusive design! Patented! Air lubricated! We believe it's the finest pneumatic body and fender set made—regardless of price!

\$75.95
Cash

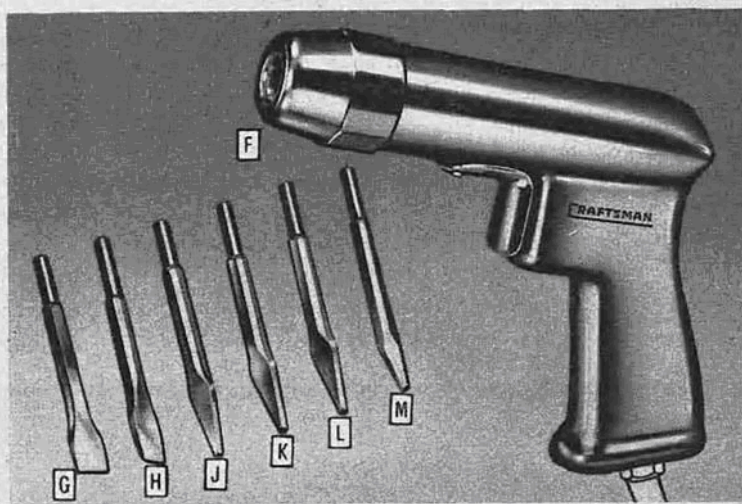
\$8.00 down

No wonder we call this the greatest advancement in body and fender tools in the last 25 years! A completely new design—with features you'll find in NO other outfit made! We believe it's the easiest-to-operate, easiest-to-maintain outfit you can buy!

Extra heavy duty for steady production work. Should save 70% of the time ordinarily required on body and fender and sheet metal work. Power unit easily detached for use as pneumatic hand tool for chiseling, riveting, driving, etc. Chisels shown at right can be used with this tool to increase its usefulness. Buy a set.

Check these 4 features: (1) Needs no oil for lubrication—New patented principle; free-floating piston rides on film of air; reduces friction and power loss. (2) No delicate valves—Dirt or scale which would clog ordinary air hammers will blow out. (3) "Easy Control" lever—Permits controlled pressure, speed and power without operator changing position of hands... permits quick-change of power unit from one arm to another; no screws, nuts, etc.; no disconnecting of hose... permits moving tool over humps and irregular surfaces without any complicated adjustments. (4) CRAFTSMAN safety feature—Will never shoot the tool or chisel. No beehive spring required.

Set includes two 1½-inch tubular steel arms, one 20x23-in., one 18x30-in.; pneumatic hammer 6½ in. long; one upper dolly and two lower dollies. Pneumatic hammer has drop forged steel body; piston of ball bearing steel; all working parts heat treated and hardened. Air supply 90 lbs. at 10 C.F.M. recommended.
99 PC 02510—Set as illustrated. Shpg. wt. 33 lbs.....\$75.95
99 PC 1876—CRAFTSMAN Air Hose. Neoprene cover. Rayon reinforced. Maximum working pressure 250 pounds. With brass couplings. 25 feet long, ½-in. inside diam. For pneumatic tools on this page. Shpg. wt. 4 lbs. 8 oz.....\$2.69



CRAFTSMAN Air Hammer and Chisels

Exclusive with Sears! Air lubricated! Simple design; compact; easy to use. We believe it's the finest and most trouble-free air hammer you can buy.

\$31.50
Cash

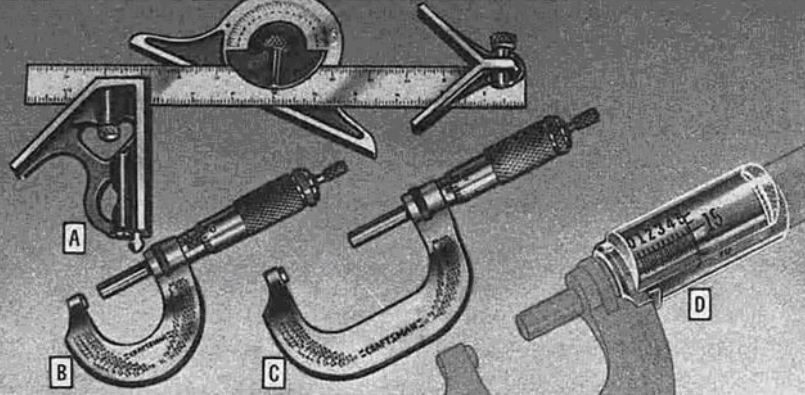
Air Hammer only
\$3.50 down

F A great new post-war development! Entirely new in design and principle! Has features you'll find in no other air hammer made—at any price! Extra heavy duty for steady production work. 3200 power-packed strokes per minute. May be used for chiseling, scaling; metal forming and finishing; removing paint, carbon, rust, etc.

Notice these important features—Needs no oil for lubrication... No delicate valves... Exclusive CRAFTSMAN safety feature prevents tool from flying out. (See description of these features under the outfit at left.) Drop forged steel body; piston of super-tough ball bearing steel. Finest, long life. Beryllium-copper piston spring. All working parts heat treated and hardened. Efficient one-hand trigger control. Gleaming chromium finish. Length 7 in. 90 pounds 10 cubic feet per minute air supply recommended.
99 PC 2500—Air Hammer only. Shpg. wt. 3 lbs. 12 oz.....\$31.50

CRAFTSMAN Air Hammer Chisels. Heat treated alloy steel, hammer forged chisels for above air hammer or for outfit at left. About 7 in. long. Buy a set.

(G) 9 PC 2501—1½-inch Scaling or Goo Chisel. Shpg. wt. 12 oz.....\$1.35
(H) 9 PC 2502—¾-inch Chipping Chisel. Shpg. wt. 12 oz.....\$1.35
(J) 9 PC 2503—¾-inch Cape Chisel. Shpg. wt. 12 oz.....1.35
(K) 9 PC 2504—¾-inch Round Nose Cape Chisel. Shpg. wt. 12 oz.....1.35
(L) 9 PC 2505—¾-inch Round Nose Cape Chisel. Shpg. wt. 12 oz.....1.35
(M) 9 PC 2506—¾-inch Diamond Point Chisel. Shpg. wt. 12 oz.....1.35



REG. U.S. PAT. OFF. **CRAFTSMAN PRECISION TOOLS . . . Squares . . . Micrometers . . . Gauges, etc.**

Combination Squares

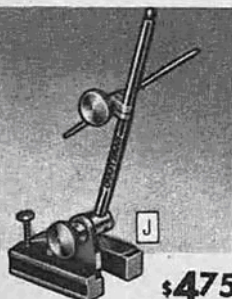
- A CRAFTSMAN.** Professional quality! 12-inch polished steel blade, graduated in 8ths, 16ths, 32nds and 64ths. Handle has level and scribe and lock nut to hold setting. 360° graduated turret protractor with level. Shpg. wt. 1 lb. 14 oz.
- 9 PC 4039 \$7.50
- 9 PC 4037—As above, but without protractor. State size wanted. With 6-inch blade. Shipping weight 14 ounces. \$2.75
- With 12-inch blade. Shipping weight 1 lb. 4 oz. \$4.15

CRAFTSMAN Micrometer

- B** Professional quality! Has ratchet and spindle lock. Forged steel frame. Tool steel anvil, spindle and screw. Graduated to 1/1000 inch. Decimal equivalents etched on frame.
- 9 PC 4069—Capacity 0 to 1 inch. Shpg. wt. 8 oz. \$10.95
- C CRAFTSMAN Micro-Calipers.** Larger than micrometer above. 1-inch precision test gauge included.
- 9 PC 4071—Capacity 1 to 2 inches. Shpg. wt. 14 oz. \$11.95
- D Micrometer Magnifier.** Magnifies scale for greater accuracy. Gathers light. Easily attached. Transparent, light weight plastic. Shipping weight 4 ounces.
- 9 PC 4080—For Brown and Sharpe micrometers. \$1.65
- 9 PC 4081—For Lufkin polished frames. \$1.65
- 9 PC 4084—For CRAFTSMAN, Starrett, (except No. 238), Reed, Miller Falls, Goodell Pratt, Keystone, etc. \$1.65

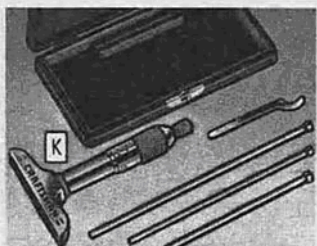
CRAFTSMAN 7-piece Micrometer Set

- Ideal for automotive, as well as other mechanics. Set includes 4 micrometers; 0 to 1-inch, 1 to 2-inch, 2 to 3-inch, and 3 to 4-inch. Also 3 standards for testing, and adjusting wrench. Anvil, spindle and screw are finest quality tool steel; anvil and spindle faces are extra hard to prevent wear when measuring hardened surfaces. Frames are drop forged of special alloy steel; designed for hard use. Accurate, easily read graduations in 1/1000 of an inch. In convenient artificial leather covered, cotton plush-lined box.
- 9 PC 4086—Shipping weight 4 pounds. 7-piece set \$42.50
- E** 9 PC 4090—0 to 1-inch micrometer, as above. Shpg. wt. 10 oz. \$7.25
- F** 9 PC 4091—1 to 2-inch micrometer, as above. Shpg. wt. 12 oz. 8.95
- G** 9 PC 4092—2 to 3-inch micrometer, as above. Shpg. wt. 14 oz. 9.95
- H** 9 PC 4093—3 to 4-inch micrometer, as above. Shpg. wt. 1 lb. 10.95



Surface Gauge

- J CRAFTSMAN.** Professional quality. Hardened steel base, 2 1/2 x 1 1/2 x 3/4 inch; slotted so spindle can be turned down for use as depth gauge. With 2 spindles, 9 and 12-inch. 5-inch scriber. Spring control holds scriber and head at any point, simply by tightening a thumb nut. Shipping weight 1 pound.
- 9 PC 4055 \$4.75

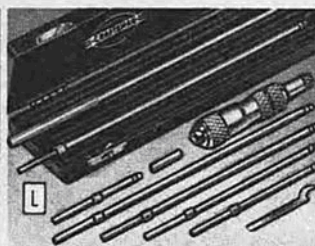


Micrometer Depth Gauge

- K CRAFTSMAN.** To take depth measurements in holes, slots, shoulders, etc. Spindle has full one-inch movement; graduated in 1000ths of an inch. Three measuring rods give 0 to 3-in. capacity. Base is 2 1/2 in. long, 1 1/2 in. wide; hand-lapped at right angles to rod. In plush lined case.
- 9 PC 4046—Shpg. wt. 14 oz. \$10.95

CRAFTSMAN Inside Micrometer

- L** Designed for close internal measurements. Makes all inside measurements by 1/1000ths of an inch, from 2 to 12 1/2 inches. Seven measuring rods and long handle for reaching inaccessible places. Packed in durable cotton plush lined case.
- 9 PC 4073—Shpg. wt. 1 lb. 8 oz. \$10.50

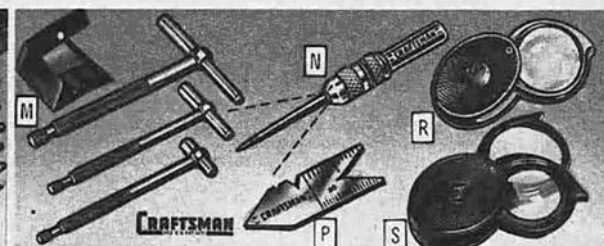


Telescoping Gauge Set

- M CRAFTSMAN.** For speedy and accurate measurements in slots and holes. Final measurements are taken with micrometer. One plunger is telescoping; locks in position by slight turn of knurled screw. Ends of each head heat treated. Set of three gauges; 1/2 to 3/4-inch range; 3/4 to 1 1/4-inch range; 1 1/4 to 2 1/4-inch range. In artificial leather case.
- 9 PC 4020—Shipping weight 6 oz. \$5.25

Wiggler or Center Finder

- N CRAFTSMAN.** For tool or jig work. Adjustable tempered steel pointer; telescopes into body. Length open, 4 1/2 inches. Shank, 3/8 inch.
- 9 PC 4025—Shipping weight 4 oz. 98c

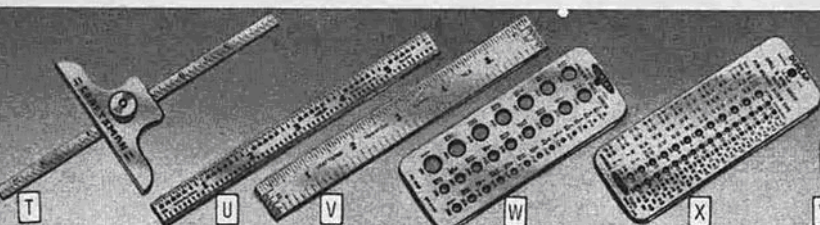


CRAFTSMAN Center Gauge

- P** For checking lathe centers, etc. U. S. Standard 60-degree gauge. Made of tempered steel with ground edges. Graduated in 14ths, 20ths, 24ths and 32nds of an inch; easy to read.
- 9 PC 4064—Shipping weight 4 ounces. 59c

CRAFTSMAN Magnifiers

- For toolmakers, engineers, draftsmen, laboratory technicians, mechanics, students, and others who have to check fine readings. Black bakelite case. Handy for pocket or tool box.
- R** Single lens. With high quality 40-mm. lens. Magnification, 3.0.
- 9 PC 4076—Shipping weight 4 ounces. \$1.09
- S** Double lens. With 32 and 40-mm. lenses. Magnification, 6.5. For very fine readings.
- 9 PC 4085—Shipping weight 6 ounces. \$1.45



Depth Gauge

- T CRAFTSMAN.** Professional quality. A combination depth and angle gauge. Milled and ground steel head is 2 1/2 inches across the base. Tempered spring steel rule is 1 1/2-inch wide and 6 inches long; graduated in 32nds of an inch on one side; 64ths on the other. Rule held by spring tension nut at right angles; also 30, 45 and 60-degree angles. Shipping weight 4 oz.
- 9 PC 4044 \$2.39

Accurate Steel Rules

DUNLAP. Fine quality stainless steel. Electro-acid etched; figures and graduations stand out clearly. Shipping weight each 6 ounces.

Catalog no.	Size, in.	Graduations	Type	Each
9PC4045	6x1 1/2	1/32, 1/50, 1/64, 1/100	Semi-flex	39c
9PC4040	6x2 3/32	1/32; millimeters	Semi-flex	23c
9PC4038	6x2 3/32	1/16, 1/32, 1/64	Semi-flex	29c
9PC4042	12x1 1/2	1/32; millimeters	Semi-flex	65c
9PC4043	24x1 1/2	1/32; millimeters	Semi-flex	98c

CRAFTSMAN. Crucible steel. Edges carefully ground and polished. Machine etched; sharp, uniform graduations. Shipping wt. each 6 oz.

9PC4031	6x3/8	1/32, 1/64	Flexible	98c
9PC4032	6x3/8	1/8, 1/16, 1/32, 1/64	Solid	98c
9PC4033	12x1	1/8, 1/16, 1/32, 1/64	Solid	\$1.85

Drill Gauges

- W** 9 PC 4049—For fractional sizes. Covers 29 sizes, 1/16 to 1/2 inch. Hardened steel, polished. Shpg. wt. 4 oz. \$1.05
- X** 9 PC 4047—Wire Gauge sizes. Sizes, 1 to 60. Hardened steel, polished. Shpg. wt. 7 oz. 98c

Circular Gauges

- Y** 9 PC 4023—Wire Gauge. American standard. Steel gunmetal finish. Sizes, 0 to 36. Shpg. wt. 6 oz. \$2.75
- 9 PC 4024—Sheet and Plate Iron and Steel Gauge. U. S. standard. Steel, gunmetal finish. Sizes, 0 to 36. Shpg. wt. 6 oz. \$2.75

Thread Gauge

- Z** CRAFTSMAN. Professional quality. Gives screw pitches on V-threads. Contains 22 pitches, 9 to 40. Shipping weight 2 ounces.
- 9 PC 4048 \$1.25

Reference Table-Rule

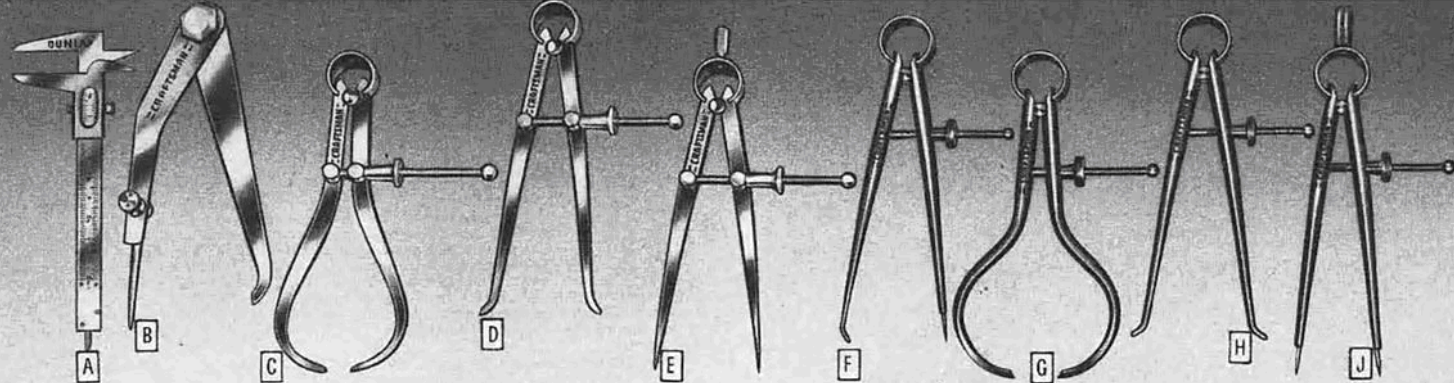
- AA** DUNLAP. Tempered steel, 6-in. rule. Shows fractions, decimals and graduations to 32nds on one side; reference table for tap and drill data, and 64ths graduations on other side. Quick reading. Shpg. wt. 4 oz.
- 9 PC 4011 45c

Protractor

- BB** Stainless steel. Rectangular head has 4 working faces. Graduated 0 to 180°. Shpg. wt. 4 oz.
- 9 PC 4029 98c

Combination Rule

- CC** DUNLAP. Stainless steel. Square bevel protractor, circle finder, divider, drill gauge . . . all in one rule. Marked in 32nds and 64ths. Shipping weight 4 ounces.
- 9 PC 4026 98c



Calipers ... Dividers, etc. ... All Precision Tools are guaranteed accurate

A DUNLAP Vernier Calipers. For inside or outside measurements, or for use as a depth gauge. Graduated in 16ths and 32nds of an inch; 1/128-inch vernier. Clear, easy-to-read graduations. 5 inches long. **95c**
9 PC 4022—Shpg. wt. 5 oz. **95c**

B CRAFTSMAN Hermaphrodite Calipers For laying out work, locating centers, etc. Tempered crucible steel legs. One leg is offset and has adjustable point; lock nut holds setting until change is desired. Smooth-action friction joint. 4-inch size. **95c**
9 PC 4010—Shpg. wt. 10 oz. **95c**

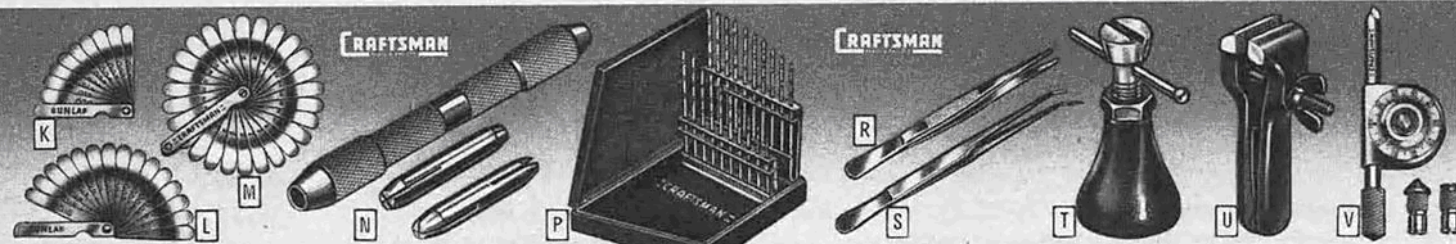
CRAFTSMAN Calipers and Dividers. Professional quality. Meet industrial requirements. Tempered stiff springs assure uniform tension. Solid nuts operate easily on screws; quick and easy adjusting. Tempered crucible steel legs; tough and rigid. Accurately machined for close precision work. Hardened points for long service; meet evenly. **98c**
Please order by catalog number and be sure to state size wanted.

Size	4 in.	6 in.	8 in.
Shipping weight	4 oz.	6 oz.	11 oz.
9PC4019—Outside Caliper	98c	\$1.19	\$1.49
9PC4018—Inside Caliper	98c	1.19	1.49
9PC4017—Divider	98c	1.19	1.49

F CRAFTSMAN Toolmakers' Hermaphrodite Calipers. Our finest professional quality... for the most precise laying out work, for accurately locating centers, etc. Many improvements over conventional flat leg pattern—round legs and stiff springs give more rigidity; eliminate wobble at the points. Finest alloy stainless steel. Reversible leg and firm grip chuck. Replaceable point. Precise adjustments quickly made with free and easy working adjusting nut and screw. Highly polished. **\$1.65**
9 PC 3853—Please be sure to state size. 4-inch size. Shpg. wt. 10 oz. **\$1.65**
6-inch size. Shpg. wt. 12 oz. **1.85**

CRAFTSMAN Toolmakers' Calipers and Dividers. Our finest professional quality. For the most sensitive adjustments and most precise work. Stiff spring and tapered spool eliminate wobble at the points. Accurately machined from finest alloy stainless steel to prevent rusting; highly polished. Replaceable points on dividers. **\$1.65**
Please order by catalog number and be sure to state size wanted.

Size	4 in.	6 in.
Shipping weight	4 oz.	6 oz.
9 PC 3851—Outside Calipers	\$1.65	\$1.85
9 PC 3852—Inside Calipers	1.65	1.85
9 PC 3850—Dividers	1.65	1.85



High quality Feeler Gauges

K DUNLAP 9-leaf Feeler Gauge. Nine steel blades .002 to .025 in. For thicknesses from .002 to .091 in. Length 3 inches. **42c**
9 PC 4052—Shipping weight 4 oz. **42c**
L DUNLAP 15-leaf Feeler Gauge. 15 steel blades .003 to .018 in. Thicknesses from .003 to .151 in. Length 3 inches. **65c**
9 PC 4058—Shipping wt. 6 oz. **65c**

M CRAFTSMAN 25-leaf Feeler Gauge. Our finest. 25 spring steel blades .0015 to .025 in. Thicknesses from .0015 to .2755 in. Length 2 1/4 inches. **\$2.85**
9 PC 4057—Shipping wt. 7 oz. **\$2.85**

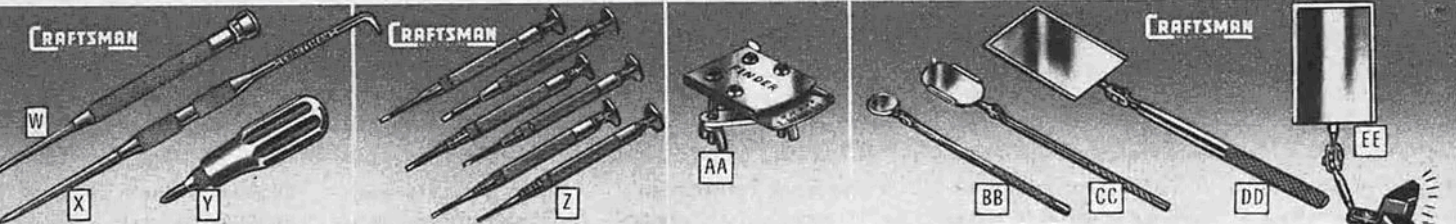
N Pin Vise. For small jewelers' drills, taps, files, etc. Steel; knurled polished handle. 2 double reversible chucks; 0 to .125 in. and 0 to 3.2 mm. Plastic container. **\$1.09**
9 PC 4068—Shpg. wt. 4 oz. **\$1.09**

P Jewelers' Drill Set. Also for tool and die makers, model makers, hobbyists, etc. High speed steel. 20-piece set consists of drill sizes No. 61 to No. 80. Pin vise 9PC4068 above is ideal holder for these drills. Set comes in folding cadmium plated steel container. Drills are held in die cast holes in hinged panels, clearly marked for easy selection. Shipping weight 4 oz. **\$7.35**
9 PC 6706—Complete set **\$7.35**

R CRAFTSMAN Tweezers. Professional quality. Indispensable for jewelers, mechanics, tool and die makers, pattern makers, hobbyists, photographers, etc. Made of tempered spring steel with nickel plated finish. Choice of bent or straight points. Shpg. weight each 4 ounces. **45c**
9 PC 4459—Straight. 6-inch. **45c**
9 PC 4460—Bent. 7-inch. **45c**

T Small Jack Screw. Cast iron base; steel screw adjusts 1 in. Swivel head; lock nut. Maximum height 4 in. Lifts 1000 lbs. Shpg. wt. 8 oz. **59c**
9 PC 4088—Each **59c**
9 PC 4089—Set of 4. Shpg. wt. 2 lbs. **\$2.10**
U Hand Vise. Forged steel jaws and handles. Jaw faces checked for firm grip. Thumb nut and spring operated. Shpg. wt. 1 lb. 2 oz. **\$1.98**
9 PC 4078—Shpg. wt. 1 lb. 2 oz. **\$1.98**

V CRAFTSMAN Speed Indicator. Professional quality. An ideal indicator for high speed precision work. Dial has two rows of easy-to-read figures... shows every revolution... right hand or left hand. Ball thrust bearing takes up pressure. Can be easily and quickly set to 0. Comes complete with two rubber tips. Shipping weight 7 ounces. **\$1.59**
9 PC 4060—Shpg. wt. 7 oz. **\$1.59**



CRAFTSMAN Scribers and Center Punches

W CRAFTSMAN Pocket Scribers. Knurled steel body; replaceable steel point. Shpg. wt. each 4 oz. Please state size. **55c**
9 PC 4051—1/4-inch diameter. **42c** 3/8-inch diameter. **55c**
X CRAFTSMAN Double Scriber. Knurled steel body. Replaceable tempered points; one bent. Over-all length 9 inches. **55c**
9 PC 4014—Shipping weight 6 ounces. **55c**
Y CRAFTSMAN Automatic Center Punch. No hammer needed—internal mechanism strikes blow. Hardened steel point. 4 in. long. **\$1.49**
9 PC 4016—Shipping weight 4 ounces. **\$1.49**
9 PC 4015—CRAFTSMAN Adjustable Center Punch. Same as 9PC4016, but adjustable for depth of markings. Shpg. wt. 4 oz. **\$2.19**
9 PC 4012—CRAFTSMAN Tungsten-carbide Tipped Point. For marking hardened steel, indenting glass before drilling, etc. Fits 9PC4015 and 9PC4016 center punches. Shipping weight 3 oz. (Not shown). **\$1.00**
9 PC 4013—CRAFTSMAN Self-centering Attachment. For punching holes in exact center of countersunk holes for accurate mounting of hinges, brackets, etc. Fits 9PC4015 and 9PC4016. Full size possible hole size range. Shipping weight 3 ounces. (Not shown). **\$1.00**

Jewelers' Screwdriver Sets

Z CRAFTSMAN 6-piece Set. Nickel-plated, tempered steel. Free-turning tip. 3 3/8 inches long. Blade sizes: 0-.100; 1-.080; 2-.070; 3-.055; 4-.040; 5-.025. Shpg. wt. 12 oz. **\$2.98**
9 PC 4104—Set of 6 for **\$2.98**
9 PC 4103—CRAFTSMAN 3-pc. Set. Same construction as set above. Blade sizes: 0-7/64, 2-5/64 and 4-3/64 in. Shipping weight 6 oz. **\$1.65**
AA Combination Finder-Indicator For inside, outside or surface work; truing-up work in lathes, etc. Durable made of nickel-plated steel. Clamps to tool bit by strap and two wing nuts. Graduations in 1/1000 inch. Shipping weight 3 ounces. **98c**
9 PC 4094—Shpg. wt. 3 oz. **98c**

CRAFTSMAN Mechanics' Mirrors

Inspection Mirrors. These mirrors cover practically every type of inspection need. They can be quickly twisted at any angle desired. Nickel plated handles and frames. Knurled grips for a firm hold. **\$1.09**
9 PC 4096—1/2-inch round mirror. Length over-all 7 1/4 inches. Shpg. wt. 4 oz. **98c**
9 PC 4097—1x2-inch oval mirror. Length over-all 8 1/2 inches. Shpg. wt. 4 oz. **\$1.09**
9 PC 4098—2 1/2x3 1/2-inch oblong mirror. Telescoping handle. Length over-all 16 1/2 inches. Shipping weight 6 ounces. **\$1.55**
EE Magnetic Mirror. Heavy metal base is magnetized; adheres firmly to metal; leaves both hands free for work. Oblong mirror, 2 1/2x3 1/2 inches. Two ball swivel joints allow mirror to be turned at any angle. Length over-all 8 inches. **\$2.59**
9 PC 4099—Shipping weight 14 ounces. **\$2.59**

HIGH QUALITY VALVE TOOLS

for professional type automotive work

CRAFTSMAN Valve Spring Compressor

\$4.49

A Services more different automobile makes and models than any other type of valve spring compressor. The strong steel frame is 9x11 inches; compressor has an opening capacity of 10 1/4 inches. Designed to clear exhaust manifold and other obstructions without necessitating their removal. Equipped with No. 1 straight standard jaws. The CRAFTSMAN provides a positive vertical lift; the resilient spring jaws will fit 90% of all size springs and washers... will not slip off springs. Automatic lock holds spring at any position, leaving both hands free for removing valve locks. Has a pull-out ratchet crank, convenient for clearing obstructions, and to permit working in close places.

9 PC 4695—Shipping weight 6 pounds. \$4.49

Replacement Jaws for above Compressor

- B 9 PC 4698—No. 1 Straight Jaws. As furnished with above compressor. Shipping weight 4 ounces. Pair \$1.09
 C 9 PC 4697—No. 2 Special Offset Jaws. For General Motors cars and Continental Motors. Shipping weight 4 ounces. Pair 1.09
 D 9 PC 4700—No. 3 Special Offset Jaws. For motors requiring additional offset, and Dodge 6 Motors. Shipping weight 4 ounces. Pair 1.35
 E 9 PC 4699—No. 5 Special Offset Jaws. For Plymouth, Dodge, Chrysler, and Waukesha Motors. Shipping weight 4 ounces. Pair 1.35

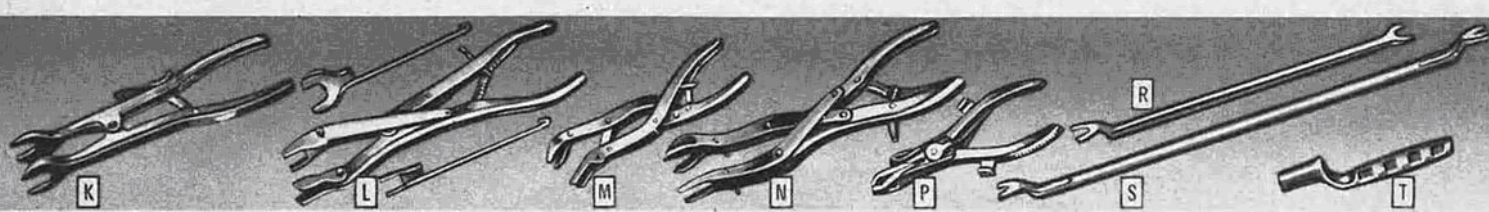
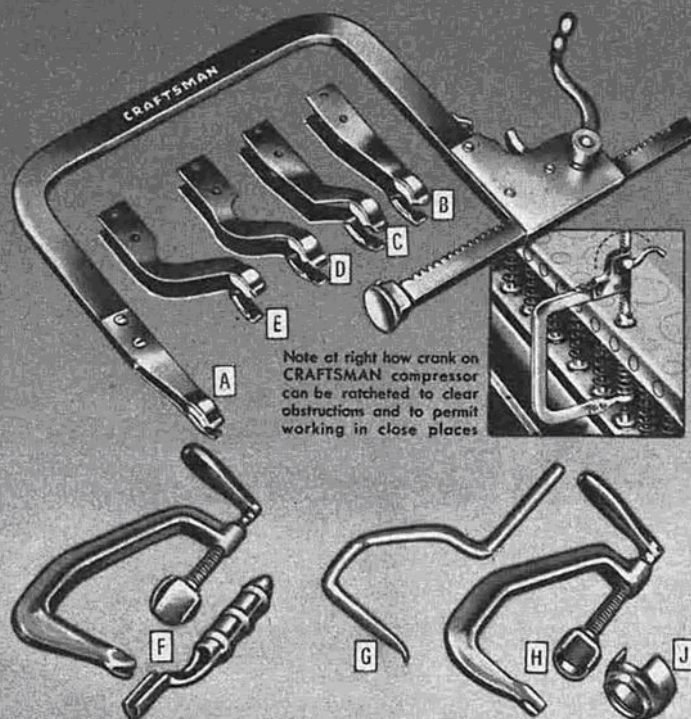
Valve Guide Puller

F Two-piece set. Includes a guide puller and a guide retainer driver. Strongly made of drop forged steel. For use with Ford V8-60 motors only. Easily and quickly pulls valve assemblies, even those tightly stuck. A boon for the garage mechanic. Shipping weight 6 pounds. 9 PC 4666. \$7.75

Valve Guide Puller Set

- G H Includes guide puller (H) and driver (G). For use on Ford V8-85, Mercury and Lincoln-Zephyr cars only. Use with adapter 9PC4732 below for Ford 6-cylinder motors. Puller made of forged steel; hardened tool steel jaw plate. Driver made of tempered steel. 9 PC 4665—Shipping weight 8 lbs. 2-piece set \$7.75
 G 9 PC 4662—Guide Retainer Driver only. Removes Ford motor retainer guides. Shipping weight 2 lbs. 1.00
 J 9 PC 4732—Adapter for above set. Must be used with above valve guide puller set when servicing Ford 6-cylinder motors. Shipping weight 8 ounces. 79c

Note at right how crank on CRAFTSMAN compressor can be ratcheted to clear obstructions and to permit working in close places



Bargain Valve Lifter

K For practically all makes of automobile engines, including Ford models A and B. Heavy pressed steel. Gives sure, comfortable grip. Self-locking catch, held securely by spring. Rust-resisting finish. Length 10 inches. With instructions. Shipping weight 14 ounces. 9 PC 4650. 59c

"Hi-Offset" Valve Lifter

M A useful valve lifting tool designed for under-the-fender operation (with the manifold on) in late model L-head automobile and truck motors. Strong, tempered steel jaws. Parallel lift 3 inches. Length 8 3/4 inches. Shipping weight 1 pound 6 ounces. 9 PC 4652. \$1.60

Valve Keeper Insert

P A convenient tool to use when placing slit keys on valve stems. Easy to load and handle. Jaws keep firm grip on keepers. Self supporting. Made of strong pressed steel for light weight and long service. Shipping weight 10 ounces. 9 PC 4675. \$1.00

Bar-type Lifter

S For use on Ford V8-85, Mercury and Lincoln-Zephyr valve springs. Long 30-inch bar is made of tempered steel; provides powerful leverage. Identical size jaws on each end of bar, correctly offset for efficient work. Shipping weight 5 pounds. 99 PC 04655. \$2.65

Valve Lifter

L Designed for use on all model cars which have exposed valve assemblies. Safety ratchet locks jaw in place so that both hands are left free for working. Interchangeable jaws of tempered steel. Parallel jaw action. Length 11 inches. Shipping weight 2 pounds. 9 PC 4651. \$1.19

Valve Spring Lifter

N A strong dependable tool. For valve spring lifting work on practically all L-head motors, old or new models. Has safety ratchet lock; leaves both hands free for work. Hardened steel jaws are fully adjustable. Length 10 inches. Shipping wt. 2 lbs. 9 PC 4653. \$2.00

Low-priced Valve Lifter

R For use on Ford V8 motors. Consists of strong drop forged steel bar with jaw on each end; one jaw fits old type Ford V8 valves; other jaw fits new type valves. Simple and fast to operate. Saves considerable time and labor. Rust-resisting finish. 20 1/2 inches long. Shipping weight 1 pound 4 ounces. 9 PC 4656. 90c

Valve Guide Driver

T For use on Ford V8-85 and Lincoln-Zephyr motors. Not for late models with heavy valve springs. Made of strong tempered steel for extra long service. Drives guides far enough for removal of retainers... won't pass through valve bore. A time and labor-saver for the auto mechanic or auto owner who does his own work. Shpg. wt. 1 lb. 9 PC 4660. \$1.00



Valve Grinder

U CRAFTSMAN. \$2.49
 Used by many professional auto mechanics, and men who grind their own valves. Delivers quick, unbalanced back and forth movement that constantly advances to new positions, assuring smooth, even surface. Ball thrust bearing on spindle gives easy action. Black, rust-resisting finish. With long and short self-locking stems, bits, vacuum cup and grinding spring. Efficient. Shipping weight 1 lb. 8 oz. 9 PC 4704. \$2.49

Valve Seat Reamers

V For all valve seats from 1 to 2 inches except Chevrolet, and hardened insert seats. Tool steel blades. Set includes 2-inch 45° cutter, handle, and 4 pilots (5/16, 11/32, 3/8 and 19/32-inch). Reseats all valve seats up to 2-inch, except those located in ports. Shipping weight 1 pound 7 oz. 9 PC 4637. \$1.05
 9 PC 4638—With 45° head. Fits all Chevrolet 1913-1934, except 1928 cars. Shpg. wt. 12 oz. 89c
 9 PC 4641—With 30° head. For 1935 Chevrolet standard and later; others with 30° valves. Includes 1 1/4-in. 30° cutter, 1 3/4-in. 30° cutter, 1 1/2-in. pilot, and handle. Shpg. wt. 9 oz. \$1.65

Valve Seat Refacer Set

W For refacing hard or soft valve seats. Can be used with speeder handle or electric drill. Replaceable abrasive discs. Reseats all valves up to 2 1/2 in., except Chevrolet "6" (order reamers for Chevrolet at left). Set consists of: one 45° head; one 30° head; seven pilots (5/16, 11/32, 3/8, 7/16 and 19/32 inch); pilot bushings for Ford V8; extra fine abrasives for each head, and crossbar. Made of high quality steel. Shpg. wt. 3 lbs. 5 oz. 9 PC 4639. Set \$3.69
 Replacement Abrasive Discs. Not shown. For above valve seat refacer set. Package of 12 extra abrasives; 6 fine and 6 coarse. Shipping weight 3 ounces. 9 PC 4640. Package of 12 59c

Valve Refacing Tool

X For accurately refacing scored and pitted valve face surfaces. The clamp is so designed that the main strain is directed into the machined V-block. Base is adapted to be held either in a vise or screwed to a work bench. A formed washer is provided to be used with Chevrolet valves, providing a true seat for the feed screw, thus eliminating all end play. High speed tool steel blade; set and rigidly held against fixed stops, which locate it at its correct angle; adjustable for 30-degree and 45-degree valve faces. Rust-resisting red and black enamel finish. Shipping weight 1 lb. 12 oz. 9 PC 4709. \$1.39

Diamond Wheel Dressers

CRAFTSMAN. For popular makes of valve refacers. \$5.15
 Y 9 PC 4740—Fits 9 PC 4740 Sioux. 9/16-inch knurled head. Threaded shank 3/8x2 3/8 in.; 24-thread. Diamond about 3/4 carat. Shpg. wt. 6 oz. \$5.15
 Z 9 PC 4742—Fits Black and Decker, Dumore No. 10, and Van Norman No. 20. Plain straight shank 3/8x1 3/8 in. Can also be used on other small wheels up to 5 in. Extra split sleeve for use on 1/16-in. shank. Diamond about 3/4 carat. Shpg. wt. 6 oz. \$3.25
 AA 9 PC 4741—Fits Black and Decker, and Sioux. Knurled head. Threaded shank 3/8x2 in.; 24-thread. Diamond about 3/4 carat. Shpg. wt. 6 oz. \$3.79

CRAFTSMAN FENDER TOOLS

REG. U.S. PAT. OFF.

A complete selection for body and fender work

The very TOP in body and fender tool quality! Not cast iron or malleable iron like many tools of this type... but drop forged steel for super toughness and super strength. The comfortable wood handles are made of straight-grained hard wood. These tools are not a "side line" but have been made in a factory exclusively devoted to body and fender tools for over 20 years.

16-pc. Body and Fender Set. A full line for the large body and fender shop. Includes one each of the following (described below): 9PC4556, 9PC4554, 9PC4553, 9PC4552, 9PC4555, 9PC4551, 9PC4550, 9PC4565, 9PC4564, 9PC4563, 9PC4562, 9PC4561, 9PC4568, 9PC4569, 9PC4570 and 9PC4571. In metal box.

99 PC 04585—Shipping weight 55 pounds. \$39.50

8-pc. Body and Fender Set. For smaller shops. Includes one each of the following (described below): 9PC4556, 9PC4552, 9PC4551, 9PC4550, 9PC4565, 9PC4563, 9PC4568, 9PC4571. In metal box.

99 PC 04584—Shipping weight 25 pounds. \$19.95

Pick and Finishing Hammers

A Combination Pick and Finishing Hammer. Pick on one end; finishing face on the other. Diameter of face, 1 1/2 inches; length of pick 2 3/4 inches; length of head 5 1/2 inches. The most popular type of body hammer.

9 PC 4556—Shipping weight 1 lb. \$1.79

B Sharp Pick Hammer. Often used in place of ball pein, or other raising type hammer, because it has less tendency to stretch the metal. Diameter of finishing face 1 1/2 in.; extra long pick 3 3/4 in.; head length 6 1/4 in.

9 PC 4554—Shpg. wt. 1 lb. 2 oz. \$2.49

C Blunt Pick Hammer. For badly rusted or thinner metal. Also raises low spots faster. Finishing face 1 1/2 inch diameter; 2 3/4-inch blunt point. Head length 5 1/2 inches.

9 PC 4553—Shipping weight 1 lb. \$2.19

General purpose Hammers

D Cross Pein Hammer. Ideal for bringing out narrow bead surfaces. Length of cross pein 3 inches; diameter of pein 3/4 inch; finishing face 1 1/2 inches. Length of head 5 inches.

9 PC 4552—Shipping weight 14 oz. \$2.19

E Oval face Ding Hammer. Diameter of small oval face 1 3/8 in.; diameter of large finishing face 1 3/4 in. Head length 6 in.

9 PC 4555—Shpg. wt. 1 lb. 4 oz. \$2.45

F General purpose Bumping Hammer. Wide faces. Square face 1 1/2 inches; round face 1 1/2 inches. Head length 5 inches.

9 PC 4551—Shpg. wt. 1 lb. 4 oz. \$2.19

G Light Bumping Hammer. Short stroke for close places. Square face 7/8 inch; round face 1 1/8 inches. Head length 3 1/2 inches.

9 PC 4550—Shipping weight 9 oz. \$1.69

CRAFTSMAN Body and Fender Dollies

H All-purpose Dolly. Has 8 moulding and bead working surfaces. Top surface for bumping or roughing out; bottom surface for working panels and fender skirts. Working surfaces far apart to protect hands when working with hot lead. 3 inches high.

9 PC 4565—Shpg. wt. 2 lbs. 8 oz. \$2.89

J High crown Dolly. Heavy end tapers down to a lower crown at thinner section. Fits many rolled beads and pressed out mouldings. Fits the high crowns of many fenders.

9 PC 4564—Shipping weight 4 lbs. \$2.49

K Combination Dolly. Spoon and dolly combined. For working on roof rails, behind door and body posts, etc.

9 PC 4563—Shpg. wt. 3 lbs. 8 oz. \$2.49

L Heel Dolly. Ideal for shrinking.

9 PC 4562—Shpg. wt. 2 lbs. 8 oz. \$1.65

M Universal Dolly. Compact. Splendid for door panels, turret tops, other crowned surfaces. Has two beading surfaces; bullet end and straight oval top; beveled flat bottom.

9 PC 4561—Shipping weight 3 lbs. \$2.85

CRAFTSMAN Body and Fender Spoons

N Slight-curve Spoon. Short, single-blade spoon for caved-in spots between body posts, brackets, frames, and close, tight places where a dolly won't reach. While lacking in leverage, can be used where double-blade spoons won't work. 11 1/2 in. long.

9 PC 4568—Shpg. wt. 1 lb. 12 oz. \$2.19

P Sharp-curve Spoon. Fits between brackets and high-crown fenders; also for working on all high crown surfaces, such as metal tops, roof rails, doors and body panels. Length 9 in.

9 PC 4569—Shpg. wt. 1 lb. 12 oz. \$2.19

R Long double-blade Spoon. For side aprons, doors, trunk lids and roof rail side panels. Extra long for leverage so necessary for use around frame horns, into deep doors, and hard-to-get-at places. Length 16 inches.

9 PC 4570—Shipping weight 3 lbs. \$4.59

S Short double-blade Spoon. An ideal spoon for working out caved-in spots, when inserted between body posts, brackets, frames, and similar places where a dolly will not reach. Length 11 inches.

9 PC 4571—Shpg. wt. 2 lbs. 4 oz. \$3.59

Solder Paddles... with lubrication "boiled in"

Made of kiln-dried, close-grained hard maple, boiled in tallow until completely saturated... clean, leaves no mess. Smoothly finished control-grip handles; have ample clearance to keep knuckles out of the hot metal.

T Valley-type Paddle. The right paddle for hard-to-get-at places. Over-all length 9 1/2 inches. 1 inch wide.

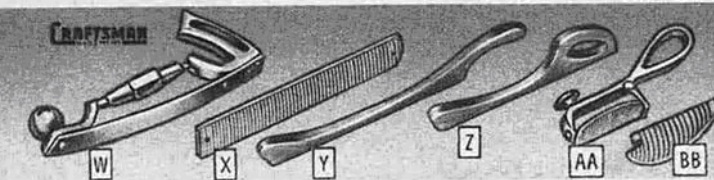
9 PC 4592—Shipping weight 4 oz. \$4.9c

U Standard Paddle. For general body and fender soldering use. Over-all length 7 1/2 inches. 1 1/4 inches wide.

9 PC 4590—Shipping weight 3 oz. \$5.5c

V Heavy duty Paddle. For larger body and fender soldering jobs... on trucks, buses, tractors, etc. Over-all length 7 1/2 inches. 1 1/2 inches wide.

9 PC 4591—Shipping weight 4 oz. \$6.9c



FILE HOLDERS... and Files

W CRAFTSMAN Adjustable File Holder. Strong cast aluminum frame. Simple adjustment makes file either concave or convex, or it can be used for straight filing. File not included; see below. With screws. Shpg. wt. 3 lbs.

9 PC 4572... \$2.89

X CRAFTSMAN 14-inch Vixen Body File. Fits file holders 9PC4572, 9PC4595, and 9PC 4594, listed above and at right. The curved teeth are machine milled. Shpg. wt. 1 lb.

9 PC 4576... \$2.50

Wood File Holders. Exceptionally handy for body and fender work. Smooth... light... easy to handle. Select kiln dried hard maple. Makes file slightly convex. File not included. See 9 PC 4576 at left below for file. Screws for attaching file included.

Y 9 PC 4595—"Old Smoothie" File Holder. Over-all length 19 inches. Shpg. wt. 9 oz. \$1.09

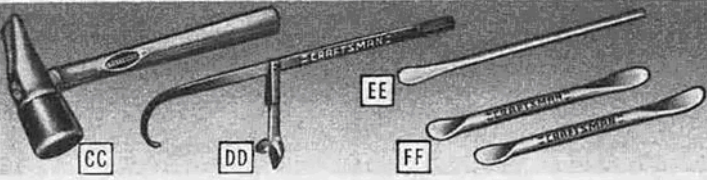
Z 9 PC 4594—"Precision Control" File Holder. Over-all length 14 inches. Shpg. wt. 9 oz. \$1.19

AA Reveal File Holder. The ideal file holder for filing in corners, or for difficult filing on small work. File has curved teeth; milled on both sides, which doubles its life and service. Size: 4 1/4 inches long; 1 1/4 inches wide. Complete with file. Shipping wt. 1 lb. 8 oz.

9 PC 4577... \$2.15

BB Extra File. As described above; for above holder. Shipping weight 6 oz.

9 PC 4578... 79c



TIRE TOOLS... Hammers, Irons, etc.

CC CRAFTSMAN Tire Hammer. Also widely used in machine, sheet metal, fender and body shops. Rubber head; delivers heavy blow without marring tire or rim. Will not rebound. Removable rubber head with alloy steel back. 15-inch second-growth hickory handle, securely fastened with wedges.

9 PC 4580—Shipping weight 3 lbs. \$2.49

DD CRAFTSMAN Bead Breaker. Will not mar finish on rim or wheel... loosens beads quickly without injury to bead, carcass or tube. Anyone can operate it without previous experience. Works equally well on conventional type rims or safety rims; readily loosens the bead on tires that are "frozen." Long handle is made from forged steel; short arm which presses tire is made from cast aluminum. Length 37 inches.

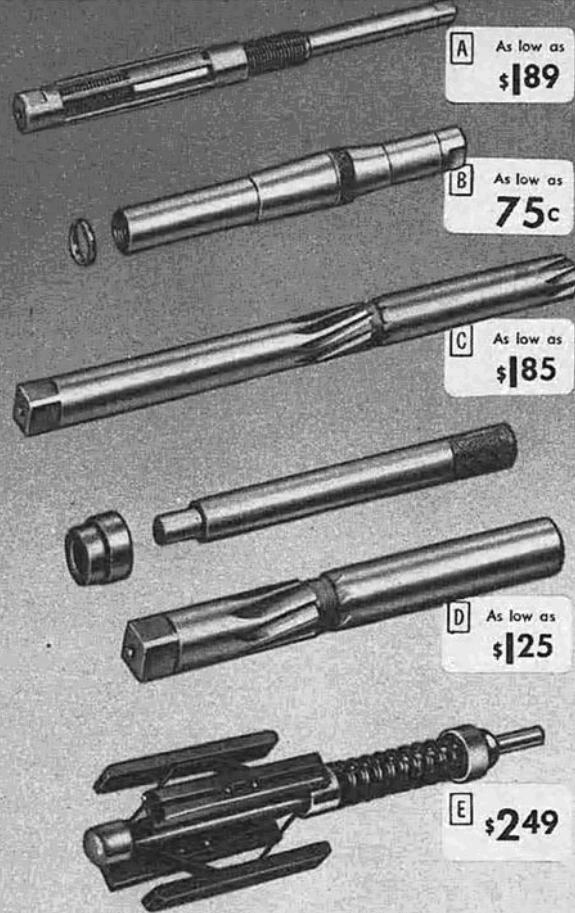
99 PC 04733—Shipping weight 6 lbs. \$4.15

EE DUNLAP Tire Iron. You'd expect to pay much more for this quality. Popular curved pattern. Strongly made of drop forged steel. Length, 18 in. Shpg. wt. 2 lbs. 4 oz.

9 PC 4722... Each 45c

FF CRAFTSMAN Tire Iron Set. Professional quality. Spoon-shaped blades take hold of larger tire area; make it easier to lift tire from rim. For either auto or truck tires. Set includes one curved and one straight iron. Drop forged steel, heat treated. Length, each, 18 inches. Shpg. wt. 4 lbs. 4 oz.

9 PC 4693... Set \$1.69



A As low as
\$189

B As low as
75c

C As low as
\$185

D As low as
\$125

E **\$249**

CRAFTSMAN AUTOMOTIVE TOOLS . . .

Designed to meet the most rigid demands
of professional automotive mechanics

Expansion Reamers

A Precision built of high quality steel; blades are set at proper angle to give smooth cut. Please state size wanted when ordering.

Expansion Reamer Pilots

B Precision ground. First 7 sizes listed below at left are extension shanks only, for extending length of reamers. Please state size.

(A) 9 PC 4642—Expansion Reamers				(B) 9 PC 4643—Pilots			
Size	Shpg. wt.	Each	Shpg. wt.	Size	Shpg. wt.	Each	Shpg. wt.
1/4 to 3/8 in.	2 oz.	\$3.25	2 oz.	1 1/2 to 1 3/4 in.	5 oz.	\$1.89	4 oz.
3/8 to 1/2 in.	2 oz.	3.25	2 oz.	1 3/4 to 2 in.	7 oz.	2.09	5 oz.
1/2 to 5/8 in.	2 oz.	3.25	2 oz.	2 to 2 1/4 in.	9 oz.	2.09	6 oz.
5/8 to 3/4 in.	2 oz.	3.35	2 oz.	2 1/4 to 2 1/2 in.	11 oz.	2.19	7 oz.
3/4 to 7/8 in.	2 oz.	3.45	2 oz.	2 1/2 to 2 3/4 in.	13 oz.	2.19	8 oz.
7/8 to 1 in.	2 oz.	3.45	2 oz.	2 3/4 to 3 in.	15 oz.	2.35	9 oz.
1 to 1 1/8 in.	2 oz.	3.49	2 oz.	3 to 3 1/4 in.	1 lb. 3 oz.	2.59	10 oz.
1 1/8 to 1 1/4 in.	4 oz.	1.89	3 oz.	3 1/4 to 3 1/2 in.	1 lb. 14 oz.	3.15	13 oz.

CRAFTSMAN King Bolt Reamers

For the correct, accurate installation of king bolts.
C Long-type King Bolt Reamers. Both ends ground to act as pilots; assure perfect alignment. Shipping weight each 1 pound 12 ounces.

9 PC 4644—For 1928-41 A, B, V8 Ford passenger cars; 1935-40 V8 1/2-ton trucks; 1928-29 Ford AA 1 1/2-ton trucks; all Mercury passenger cars... **\$1.85**
9 PC 4648—For 1930-33 Ford Model AA, BB, and 1935-37 V8 1 1/2-ton trucks... **2.39**

9 PC 4645—For all 1928-40 Chevrolet (except knee-action models); 1933-34 Plymouth passenger cars, and 1928-40 Chevrolet 1 1/2-ton trucks... **\$1.85**
9 PC 4649—For 1931-40 Chevrolet "6" 1 1/2-ton trucks... **2.39**

D King Bolt Bushing Reamer Set. Short type reamer complete with bushing remover. Shipping weight each 3 pounds.

9 PC 4647—For 1928-41 A, B, V8 Ford passenger cars, and 1935-40 Ford 1/2-ton trucks... **\$1.25**
9 PC 4646—For all 1928-40 Chevrolet passenger cars (except knee-action models), and 1933-34 Plymouth passenger cars... **\$1.35**

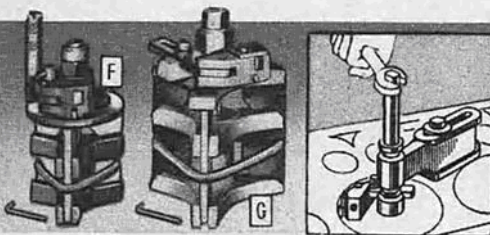
Brake Cylinder Cleaner

E Auto repair men will find this brake cylinder cleaner a convenient and efficient reconditioning tool for master cylinders on all hydraulic brakes. Cleans... polishes... burnishes. Designed especially to quickly remove all muck and grease accumulation in the brake cylinder, and to polish it to a smooth, mirror-like finish in just a few seconds.

With this tool you can do the whole job in your own shop or garage speedily and easily. It is a time and labor-saver, and a money-maker. Meets an enormous demand among garages and brake service stations because it does an otherwise tedious and messy job in a very short time. Can also be used as a hone by putting valve grinding compound, or oil and emery, in the grooves of the blades.

Made of best materials for long wear. Tension exerted by blades controlled by adjusting nut and spring. This one tool fits brake cylinders from 1 to 2 1/4 inches; instantly adjustable to any size.

9 PC 4715—Shipping weight 2 pounds... **\$2.49**



Cylinder Wall Ridge Reamers

F Professional type... for service shops and garages. Easily and quickly removes ridges in cylinders caused by ring wear. Works within the cylinder. Cannot cut walls too deep because cutter automatically follows ridge regardless of bore shape. Adjustable diameter screw. For 2 1/4 to 4-inch chamfered or straight cylinders. Made of the best materials and accurately fitted for long, dependable, hard service. Shipping weight 1 lb. 12 oz.

9 PC 4712... **\$8.35**

G Extension Block. Extends range of above reamer to 5 inches in diameter.

9 PC 4713—Shpg. wt. 1 lb. 4 oz... **\$3.49**

H Ridge Reamer for larger cylinders. Same as 9 PC 4712 above, but for cylinders 4 1/2 to 6 inches in diameter.

9 PC 4714—Shpg. wt. 6 lbs... **\$17.25**

Economy Ridge Reamer

H A dependable ridge reamer, built for real service, and offered at a typical Sears low price. Every auto mechanic should own one. Saves valuable time and labor, and does accurate work. Removes ridge on upper cylinder caused by piston ring wear. Stops ring clicking... eliminates danger of ring breakage. Bolts firmly to motor block. Handles cylinders from 2 1/4 to 4 1/4 inches in diameter.

This reamer is carefully machined and designed so no particular skill is required to produce a good job quickly and with ease. Made of good materials for long life. Fine work can be accomplished with this ridge reamer, even by the handy man who likes to work on his own car. Complete with centering jig, and simple instructions for using. Shipping weight 3 lbs. 4 oz.

9 PC 4711... **\$4.39**

Piston Ring File

J CRAFTSMAN. Professional quality. Cuts ring filing time in half. Attaches to vise or direct to cylinder block. Precision fits all type rings to cylinder; stops ring distortion, scored walls, overheating, etc. File holder slotted to hold file in three positions; vertical, and 45 degrees left and right. Makes possible exceptionally accurate work. With one file. Shpg. wt. 2 lbs.

9 PC 4687... **\$3.75**

K Replacement Files for above piston ring file. 2 3/4 x 1/16 inch. Shipping weight 4 ounces.

9 PC 4694... 4 for **\$1.09**

Ring Compressor

K An efficient tool for putting on and taking off piston rings, easily and quickly. A handy time and labor saver for the professional auto mechanic or the handy man who likes to work on his own car. Simple to operate... safe to use. Avoids stretched rings and cut fingers... makes the job much easier and does it right. Handles all types of piston rings up to 4 1/2 inches in diameter. Strongly made of pressed steel.

9 PC 4677—Shipping weight 8 ounces... **\$1.00**

4-piece Gasket Cutter Set

L Handy set of gasket cutters for cutting all sizes, shapes and angles of gaskets out of rubber, linoleum, lead, wood, leather, felt, fiber, cork, etc. Good quality tool steel. Easy to use. Set includes two cutters 4 inches long and two cutters 5 inches long.

9 PC 3637—Shipping weight 6 ounces... **.47c**



Piston Ring Compressors

M Economy Compressor. Fits rings up to 4 1/2 inches in diameter. Retains its shape; cannot scrape ring surface. Takes 4 rings; one size for all pistons.

9 PC 4701—Shipping wt. 8 oz... **35c**

N CRAFTSMAN Deluxe Compressor. Professional quality. Quick action lever; can be set to size wanted in a jiffy. Gives perfect circumference contact; no slipping. Takes all 4-ring installations. Finest spring steel; gunmetal finish.

9 PC 4702—Shipping wt. 8 oz... **98c**

Flexible Carbon Scraper

P Handy... simple to operate... invaluable for cleaning cylinder heads, valve parts, etc. A necessity for every auto mechanic's tool kit. 10 oil-tempered blades of fine spring steel provide flexibility for quick, efficient cleaning action. Strong steel handle, shaped for comfortable grip. Strongly made for long hard service... a tool that saves time and labor. Does an important overhaul job well. Length 9 inches.

9 PC 4703—Shpg. wt. 8 oz... **29c**

Groove Cleaner

R Cleans grooves in all size pistons up to 5 1/2 inches. 5 cutters; 3/32, 1/16, 1/8, 3/16 and 1/4 inch. Cutters made of hardened tool steel. Arms are so positioned that cutter is at correct angle on all sizes of pistons. Cutter position easily and quickly changed with knurled screw; no wrench necessary. Shpg. wt. 4 oz.

9 PC 4710... **\$1.09**

Groove Cutter

S CRAFTSMAN. Piston groove cutter and cleaner. Depth of cut changed by turning knurled screw extending through blade holder. 5 points for grooving, one for chamfering, and one for trimming lands; all in one blade. Cold rolled steel frame. Cutter is made of hardened, ground steel. Shpg. wt. 1 lb.

9 PC 4720... **\$2.95**

Valve Guide Cleaner

T For cleaning valve guides on any make motor. Self-adjusting to any size. Cuts out carbon; cleans and polishes valve guides in half the time involved with other methods. Can be used with electric drill, pliers, wrench, breast or hand drill. Length 6 1/2 inches. Durably made for long, hard service. A time saver for any repair shop. Shipping weight 6 oz.

9 PC 4718... **.82c**

CRAFTSMAN AUTOMOTIVE TOOLS

You'll do those repair jobs easier, faster and better when you have the right tools

CRAFTSMAN Expansion Hone

A Hones steel, cast iron, brass, bronze, alloys, etc. For precision piston pin fitting, honing brake cylinders, or any internal cylinder bore $\frac{1}{4}$ to $1\frac{1}{2}$ inches; for honing spindle bolt; water pump and steering sector bushings; brake cylinders, etc.

\$8.85

Use by holding hone in vise, or with $\frac{1}{4}$ or $\frac{1}{2}$ -inch electric drill or drill press. Will not jam or split bushings. Abrasives are fast-cutting. With two sets each of fine and coarse abrasive pads and carriers.

9 PC 4688—Shpg. wt. 1 lb. 5 oz. **\$8.85**

9 PC 4689—12 replacement Abrasive Pads for above. Six coarse and six fine. **\$1.59**

CRAFTSMAN Burnishing Hone

B For removing cylinder glaze. Will not remove metal. Resurfaces cylinder walls for installing expander type rings. Centers automatically. Expands to fit any cylinder from $2\frac{1}{16}$ to $4\frac{1}{2}$ inches in diameter. Will not oversize. Use with any $\frac{1}{4}$ -inch electric drill. Complete with drive shank and extension, two extra fine stones, two lubricated pads, and instructions for using.

\$7.85

9 PC 4679—Shipping weight 3 lbs. **\$7.85**

9 PC 4680—Set of 2 extra-fine replacement Stones and Pads for above. **\$3.85**

Shipping weight 8 ounces. **\$3.85**

CRAFTSMAN Cylinder Grinder

C Accurately reconditions cylinders... removes metal at uniform high speeds. Provides a mirror finish for long piston wear. Easily removed at any time to check the work. Self-lubricating. Fits any cylinder $2\frac{1}{16}$ to $4\frac{1}{2}$ inches. Includes set of coarse stones and set of fine stones (two stones and two lubricated pads to the set); two sets of stone carriers; drive collar; shank and extension, and easy-to-understand instructions. Use with any $\frac{1}{4}$ -inch electric drill.

\$32.75

Cash \$3.50 down

9 PC 4681—Shpg. wt. 9 lbs. 8 oz. **\$32.75**

Replacement Parts for CRAFTSMAN Cylinder Grinder above.

9 PC 4684—Set of two coarse stones and two lubricated pads. Shipping weight

14 ounces. **\$3.85**

9 PC 4685—Set of two fine stones and two lubricated pads. Shpg. wt. 14 oz. **\$3.85**

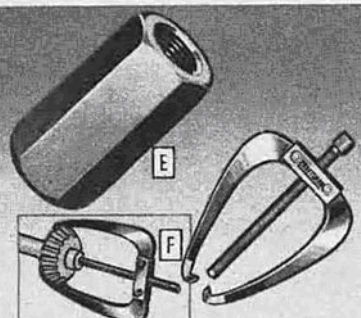
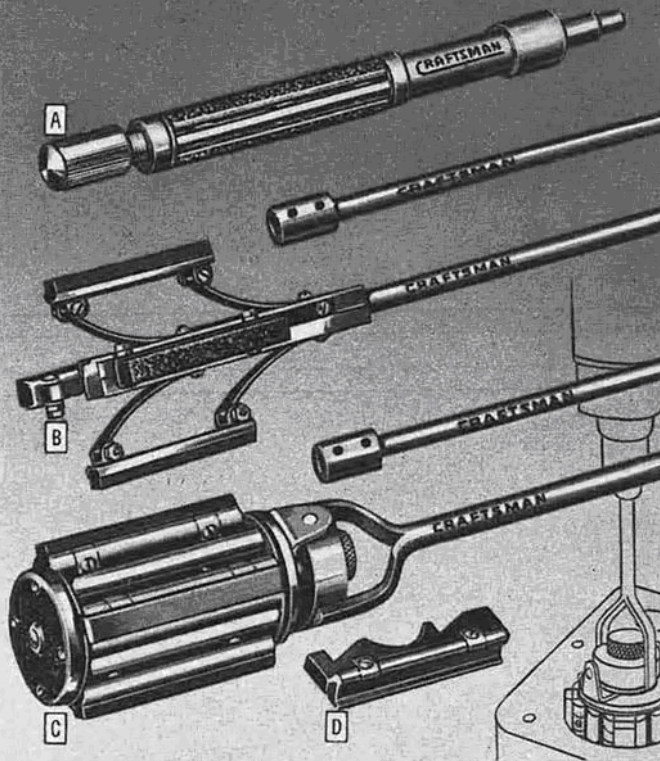
Oversize Stone Carriers

D For CRAFTSMAN Cylinder Grinder above. For use on large bore motors in trucks, buses, tractors, etc.

\$7.95

9 PC 4682—Set of 4. Range $4\frac{1}{2}$ to $4\frac{1}{16}$ inches. Shipping weight 2 pounds. **\$7.95**

9 PC 4683—Set of 4. Range $4\frac{1}{16}$ to $5\frac{1}{2}$ inches. Shpg. wt. 2 lbs. 8 oz. **7.95**



Knockout Wheel Pullers

E Heat treated steel. Vent hole in side. Cadmium plated, rust resisting finish. Polished heads. A great time and labor saver.

23c

9PC4686—Please state size wanted.

Opening	Threads to in.	Height	Shpg. wt.	Price
$\frac{5}{8}$ in.	18 SAE	$\frac{1}{2}$ in.	11 oz.	23c
$\frac{3}{4}$ in.	16 SAE	$\frac{1}{2}$ in.	12 oz.	23c
$\frac{7}{8}$ in.	14 SAE	$\frac{1}{2}$ in.	14 oz.	23c
1 in.	14 SAE	$\frac{1}{2}$ in.	16 oz.	23c

Auto-grip Gear Puller

F CRAFTSMAN. Will pull gears, pinions, bearings, pulleys, wheels, etc., up to $10\frac{1}{2}$ inches in diameter. Drop forged alloy steel jaws. Fine pitch screw thread exerts tremendous pulling power.

Catalog No.	Jaw Spread	Shpg. wt.	Each
9 PC 4690	0-5 $\frac{1}{2}$ in.	2 lbs.	\$3.09
9 PC 4691	0-8 in.	4 lbs.	7.25
9 PC 4692	0-10 $\frac{1}{2}$ in.	9 lbs.	12.25

Battery Terminal Puller

G Small puller, for pulling corroded, frozen battery terminals; also for pulling small gears, etc. Exerts 1,000-pound pressure. Jaws will not throw open when pressure is applied, but grip terminal automatically. Made of carbon steel, zinc plated. Spread $2\frac{1}{4}$ inches; reach $1\frac{1}{2}$ inches.

9 PC 4708—Shpg. wt. 1 lb. **98c**

Sleeve Jack for Ford motor

H For installing cylinder sleeves in all model Ford cars, Mercury, and Ford-Ferguson tractors, without removing motor. All work is done conveniently from the top. Top plate fits over sleeve; turns on screw with ball thrust-bearing. Adjustable spring pins on swivel shoe hold shoe in center of bore at bottom. Made of tough, heat treated steel. Length 19 inches. With tool to remove old sleeve, and simple instructions for using.

99 PC 04746—Shpg. wt. 9 lbs. **\$14.95**

Clutch Aligning Tool

J CRAFTSMAN. A time and labor saver for the auto mechanic. Centers disc clutches with flywheel so that clutch shaft will enter pilot bearing readily. Exact alignment of clutch disc, and pressure plate with flywheel pilot bearing is necessary for good clutch performance.

\$4.49

Furnished with seven interchangeable dual pilots, which with the tool itself, give eight different diameters as follows: .590, .612, .624, .668, .749, .786, .808, and .984 inch. Made of chrome finish steel; 9 inches long. 8-piece set is packed in box with instructions for using. Shipping weight 3 pounds.

9 PC 4728—8-pc. set. **\$4.49**

CRAFTSMAN Axle Rethreading Die

K For rethreading axles without removing them from housing. Drop forged, carbon steel die is split for easy application; fitted to rear of thread, and backed off. Fits all cars and light trucks except some Hudson models. Die has 6 opening sizes and SAE thread sizes per inch as follows: $\frac{3}{8}$ -in.x18, $\frac{7}{16}$ -in.x16, $\frac{1}{2}$ -in.x14, 1 in.x14, 1 $\frac{1}{2}$ -in.x12 and 1 $\frac{1}{2}$ -in.x12. Zinc plated to resist rust. 11 $\frac{1}{2}$ inches long.

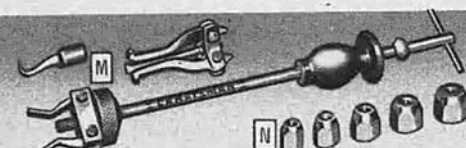
\$5.85

9 PC 4743—Shpg. wt. 2 lbs. 14 oz. **\$5.85**

CRAFTSMAN Brake Spring Pliers

L For use on all cars including Ford. Upper point on goose-neck jaw anchors on brake lining; cork-screw hook on lower jaw pulls spring into position. Ends of handles have different forged notches; one end slips upright spring into position on stud; other end removes them. Made of forged alloy electric furnace steel; machine cut, hardened rivet. Zinc plated. 13 $\frac{1}{2}$ inches long. Shpg. wt. 1 lb.

9 PC 4739 **\$1.95**



CRAFTSMAN Combination Puller

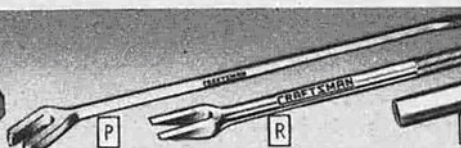
M Simplifies dozens of inside and outside pulling jobs on flywheel pilot bearings, gears, pinions, bearings, races, bushings, etc. For all makes of cars and trucks. Slide hammer type; interchangeable 2 and 3-way heads; reversible jaw arms. Special hook removes Ford valve guide locks. Alloy steel. 21 $\frac{1}{2}$ inches long. Instructions.

99 PC 04744—Shpg. wt. 6 lbs. **\$12.85**

CRAFTSMAN Shaft Puller Adapter Set

N Use with puller above, for fast, easy pulling of axle, transmission, pinion and cam shafts. Alloy steel. SAE sizes $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{1}{8}$ and 1 inch.

9 PC 4745—Shpg. wt. 1 lb. 7 oz. 5-piece set **\$2.55**



CRAFTSMAN Grease Bar

P To free "frozen" shackles when greasing. Drop forged, hardened steel. 30 in. long.

99 PC 04734—Shpg. wt. 5 lbs. **\$1.79**

CRAFTSMAN Tie Rod Spreader

R $1\frac{1}{16}$ -in. opening straddles bolts on Ford, Chevrolet, etc. Also spreads some shock absorber link clamps. Alloy steel; chrome finish.

9PC4725—17 in. long. Shpg. wt. 2 lbs. 8 oz. **\$1.95**

CRAFTSMAN Shock Absorber Spreader. As above, with $\frac{9}{16}$ -in. opening to fit Ford shock absorber arm.

9 PC 4726—Shpg. wt. 2 lbs. 8 oz. **\$1.95**

Shackle Bushing Punches

S CRAFTSMAN. For removing and replacing rubber shackles on all Ford V8 cars. Strongly made of heat treated alloy steel; chrome finish to resist rusting. Knurled handle for firm grip. Shipping weight each 1 lb. 4 oz.

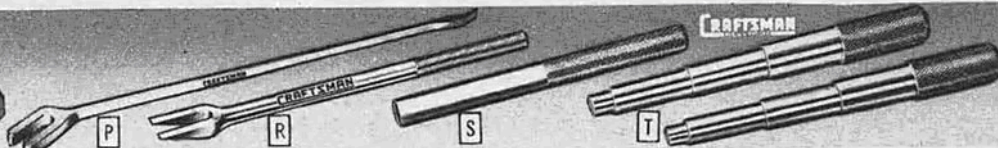
9 PC 4730—For $\frac{7}{8}$ -in. shackles on Ford V8 rear spring. **\$1.49**

9PC4731—For $\frac{3}{4}$ -in. shackles on Ford V8 front spring. **\$1.49**

Bushing Driver Set

T CRAFTSMAN. Consists of 2 drivers for driving out and replacing spring, tie rod and steering arm bushings, etc. Sizes from $\frac{1}{2}$ to $1\frac{1}{16}$ inch, in 16ths. Made of alloy steel, chrome finish. A "must" for auto repairmen. A time, labor, money-saver. Shpg. wt. 3 lbs. 8 oz.

9PC4729—2-pc. set **\$3.10**



CRAFTSMAN HACK SAWS

Extra heavy duty . . . Designed to stand up under steady professional use

CRAFTSMAN lever-action Hack Saw

- 1 Doubly strong, reinforced streamlined back . . . adjusts for 10 or 12-inch blade.
 - 2 Exclusive lever action permits quick change of blades; eliminates thumbscrews.
 - 3 Pistol grip handle of blue plastic . . . comfortable . . . practically unbreakable.
- A Only at Sears can you buy a hack saw like this! We believe there is none finer made—at any price! Extra heavy duty . . . superior balance. Exclusive lever action enables user to change blades quickly; eliminates bothersome thumb screws. Blade adjusts to cut in four directions. Back is adjustable for easily changing to a different length blade; takes 10 or 12-inch blades. Gives even tension on blade—about 150 pounds pressure. Reinforced streamlined back gives double strength. New satin chrome plated finish. Comfortable pistol grip with blue plastic handle—practically unbreakable. With CRAFTSMAN 10-inch blade. 9 PC 3560—Shipping weight 3 pounds 8 ounces. . . . \$3.25

CRAFTSMAN Safety-grip Hack Saw

- B Professional quality. Highly polished steel frame is electrically welded . . . much stronger than riveted frame. Reinforced back for extra strength. Perfectly balanced. Blade is quickly adjustable for angle cuts in four directions. Takes 8 to 12-inch blades. Comfortable safety-grip plastic handle is practically unbreakable. Complete with one CRAFTSMAN 10-inch Flex-Rigid "Super-Tuff" steel blade. 9 PC 3557—Shpg. wt. 3 lbs. . . . \$2.29

CRAFTSMAN Pistol-grip Hack Saw

- C An exceptionally strong hack saw, ruggedly made for heavy use. Extra heavy steel frame with strong reinforced back that extends through plastic, hand-fitting pistol-grip handle; gives extra rigidity and good balance. Blade turns in 4 directions for angle cuts. Frame is adjustable for 8 to 12-inch blades. Saw is complete with one CRAFTSMAN 10-inch Flex-Rigid "Super-Tuff" steel hack saw blade. 9 PC 3562—Shpg. wt. 1 lb. 14 oz. . . . \$1.39

Sturdy Hack Saw at a low price

- D An unusually low price for such good quality. Rust-resisting steel frame is electrically welded; not riveted, as are most hack saws sold at this price. Back reinforced for extra strength. Frame is adjustable for 8 to 12-inch blades. Blade can be turned in 4 directions for angle cuts. Comfortable, hand-fitting pistol-grip handle made of shockproof plastic. Complete with one 10-inch CRAFTSMAN Flex-Rigid "Super-Tuff" steel hack saw blade. 9 PC 3553—Shpg. wt. 1 lb. 8 oz. . . . \$1.95

Close quarters Hack Saw

- E Ideal for work in close quarters, cutting bushings, bolts, etc. Steel frame; aluminum handle. Center of frame in line with saw blade to prevent binding. 9 PC 3555—With 10-inch blade. Shipping weight 1 pound. . . . \$1.19
9 PC 3554—With 6-inch blade. Shipping weight 7 ounces. . . . 75c
9 PC 3535—Six 6-in. blades for saw 9PC3554. Shipping weight 4 ounces. . . . 6 for 49c

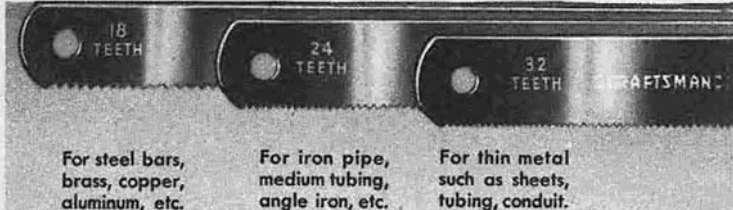
A \$325

B \$229

C \$139

D 95c

E 75c
6-inch



For steel bars, brass, copper, aluminum, etc.

For iron pipe, medium tubing, angle iron, etc.

For thin metal such as sheets, tubing, conduit.

CRAFTSMAN Flex-Rigid . . . 2-in-1 Hack Saw Blades

The desirable features of both hard and flexible blades in one blade. Made of "Super-Tuff" steel, scientifically heat treated and hardened. Tooth edge is hard; teeth are guaranteed not to strip. Back of blade is flexible to stand strain of twisting. Buy the right blade; see illustration above. State length. Shpg. wt. per doz. 13 oz.

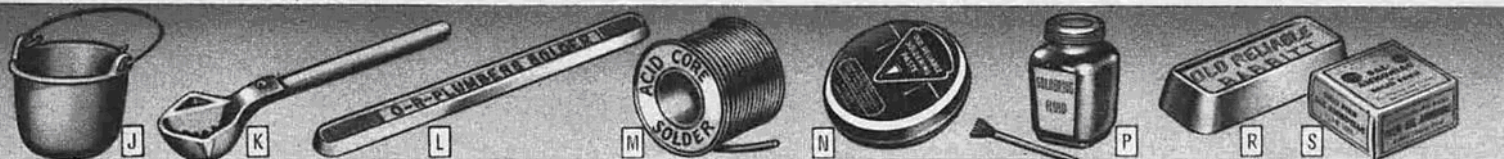
	9 PC 6584—18 Teeth	9 PC 6585—24 Teeth	9 PC 6586—32 Teeth
Length—	10-inch	12-inch	10-inch
6 for . . .	39c	49c	39c
12 for . . .	75c	89c	75c

CRAFTSMAN molybdenum steel Hack Saw Blades. For high speed cutting. Will outwear 10 regular blades. 18 teeth per inch. State length wanted. Shpg. wt. three, 3 oz. 9 PC 6583—10-inch 3 for 79c

CRAFTSMAN high-speed power Hack Saw Blades. Made of special tool steel for cutting very hard metals at high speeds. 12 inches long, 3/4-inch wide, 14 or 18 teeth per inch. State choice of teeth wanted. 9 PC 6582—Shipping weight of two 3 ounces. . . . 2 for 98c

CRAFTSMAN Professional quality Electric Soldering Irons

- F 100-watt specialists' soldering iron. \$419 Underwriters' approved. For electrical and radio workers who do delicate soldering jobs. 2 1/2-oz. replaceable insert-type solid copper tip; 4 1/4 in. long. Heat concentrated at point by Nichrome element wound on Allegheny steel core insulated with mica. Hardwood handle. 6-foot insulated cord with plug. For any 110-120 volt current. Shipping weight 1 lb. 8 oz. 9 PC 5381 . . . Each \$4.19
- G 150-watt general purpose soldering iron. \$510 Underwriters' approved. By Underwriters' Labs. Inc. 2 1/2-oz. replaceable insert-type solid copper tip; 4 1/4 inches long. Can be filed to any shape. Nichrome element wound on mica insulated Allegheny steel core, concentrates heat almost instantly at point. 3 cooling fins. Hardwood handle. 6-foot insulated cord with plug. For any 110-120 volt current. Shpg. wt. 1 lb. 8 oz. 9 PC 5382 . . . Each \$5.10
- H 200-watt heavy duty soldering iron. \$549 Underwriters' approved. 6-ounce inserted solid copper tip; length 4 1/2 in.; diameter 3/4 in. Pull out as it wears down. Blunt end for "running" seams. File to any shape. Heat quickly concentrated at point by Nichrome element on mica insulated Allegheny steel core. 3 cooling fins. Hardwood handle. 6-ft. insulated cord with plug. For any 110-120 volt current. Shipping weight 1 pound 8 ounces. 9 PC 5383 . . . Each \$5.49



Melting Pot

- J Use with plumbers' blast furnace. For melting lead and other soft metals. Made of cast iron; top diameter about 5 inches. Holds about 12 pounds of molten metal. Shipping weight 2 lbs. 12 oz. 9 PC 5435 69c

Melting Ladle

- K For melting lead or soft metals. Cast iron, with 10-inch handle. Special screen strains impurities from the molten metal. Holds about 1 1/2 pounds of molten metal. Shpg. wt. 1 lb. 12 oz. 9 PC 5436 55c

Highest quality Solder

Made under U. S. Tin Conservation Order M-43-A.

- L Plumbers' Solder. Weight about 1 pound. 9 PC 8085—Shpg. wt. 1 lb. 8 oz. . . . 75c
- M Core Solder. Flux in core, ready for use. No paste or fluid needed.

Acid Core Solder. For general soldering. 9 PC 8095—10 ft. coil. Shpg. wt. 6 oz. . . . 35c
9 PC 8093—1-lb. spool. Shpg. wt. 1 lb. 6 oz. . . . 98c

Rosin Core Solder. Non-corrosive and non-conductive. Best for electrical and radio work. 9 PC 8102—10-ft. coil. Shpg. wt. 6 oz. . . . 35c
9 PC 8100—1-lb. spool. Shpg. wt. 1 lb. 6 oz. . . . 98c

Solid Wire Solder. (Not shown.) Requires flux. Diameter, 1/8-inch. Shpg. wt. 1 lb. 6 oz. 9 PC 8090—1-pound spool. . . . 89c

Soldering Paste

- N 1/4-pound can. Very popular for soldering all metals except aluminum. Non-corrosive. Quick acting. This paste will not turn solder dark. Shipping weight 6 ounces. 9 PC 8075 1/4-pound 19c

Soldering Fluid

- P 1/2-pint bottle. For all metals except aluminum. Non-corrosive. Will not tarnish or gum. Does not give off dangerous fumes. Shipping weight 1 lb. 12 oz. 9 PC 8073 1/2-pint 25c

Babbitt Metal

- R Adopted as best for use in high speed, heavy duty work under U. S. Tin Conservation Order M-43-A. 9 PC 8081—State size bar wanted. About 2 1/2-pound bar. Shipping weight 2 pounds 10 ounces. . . \$1.19
About 5 pounds. Shipping weight 5 pounds 4 ounces . . \$2.10

Sal Ammoniac

- S Solid type. For cleaning and tinning soldering coppers. Permits an even flow of the solder. Shipping weight 6 ounces. 9 PC 8071—4-ounce package. . . 20c

CRAFTSMAN PUNCHES... CHISELS

Chromium plated "Super-Tuff" steel Hammer forged for extra strength

CRAFTSMAN professional quality punch and chisel sets are expertly made from hammer-forged "Super-Tuff" steel, heat treated, hardened and tempered. They're made from square-shaped stock with corners rounded off... can't roll when dropped or laid down! No more crawling under work bench to recover lost chisels and punches! Easier to hold and to work with. Durable and dependable... will take the roughest treatment and withstand severe hammer blows without bending or breaking. Fully rounded heads provide a solid drive. Safer because chamfered butt ends will not chip! Heads, shafts and edges made to withstand heavy shock blows. Bits and tapers highly polished. Chromium plated to resist rust.

5-piece Punch and Chisel Sets

A CRAFTSMAN. Five of the most commonly used sizes. Sets include: $\frac{1}{2}$ -inch and $\frac{3}{4}$ -inch cold chisels; center punch; pin punch; and solid punch. Available in fabric or genuine leather case.
9 PC 4293—With leather carrying case. 5-pc. set. Shpg. wt. 1 lb. 12 oz. **\$2.69**
9 PC 4302—With fabric carrying case. 5-pc. set. Shpg. wt. 1 lb. 12 oz. **\$1.85**

3-piece Cold Chisel Set

B CRAFTSMAN. The three most used sizes. Includes: $\frac{1}{2}$ -inch, $\frac{3}{4}$ -inch and $\frac{1}{2}$ -inch cold chisels. Packed in genuine leather carrying case.
9 PC 4298—Shpg. wt. 12 oz. **\$1.49**

4-piece Pin Punch Set

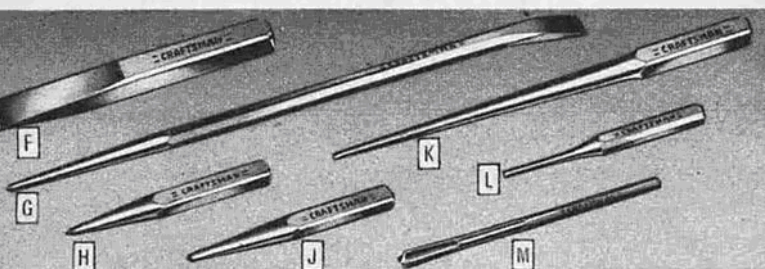
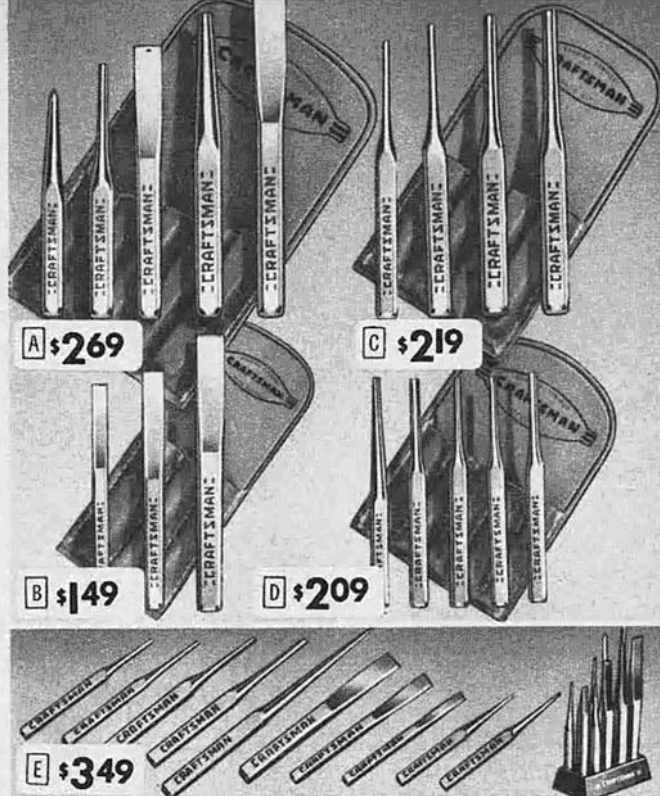
C CRAFTSMAN. Four pin punches: $\frac{1}{16}$ -inch, $\frac{1}{8}$ -inch, $\frac{3}{16}$ -inch and $\frac{1}{4}$ -inch. Choice of fabric or genuine leather cases.
9 PC 4294—In leather carrying case. 4-piece set. Shpg. wt. 1 lb. 4 oz. **\$2.19**
9 PC 4311—In fabric carrying case. 4-piece set. Shpg. wt. 1 lb. 4 oz. **\$1.49**

5-piece Pin Punch Set

D CRAFTSMAN. Four pin punches ($\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ -inch), and $\frac{1}{16}$ -inch drift punch. In carrying case.
9 PC 4296—In leather carrying case. 5-piece set. Shpg. wt. 12 oz. **\$2.09**
9 PC 4285—In fabric carrying case. 5-piece set. Shpg. wt. 12 oz. **\$1.55**

CRAFTSMAN 10-piece Punch and Chisel Set

E Heavy duty professional quality! Handy plastic holder permits easy selection. Forged from square-stock "Super-Tuff" steel, noted for its toughness! Chromium plated. Points hardened and polished. Set includes one each of the following: $\frac{1}{2}$ -inch, $\frac{3}{4}$ -inch and $\frac{1}{2}$ -inch cold chisels; $\frac{1}{16}$ -inch, $\frac{1}{8}$ -inch and $\frac{3}{16}$ -inch pin punches; $\frac{1}{16}$ -inch long taper punch; $\frac{3}{4}$ -inch stock center punch; and $\frac{3}{4}$ -inch stock prick punch.
9 PC 4306—10-piece set with plastic holder. Shipping weight 4 lbs. 8 oz. **\$3.49**



CRAFTSMAN Cold Chisels

F Professional quality. Forged from tough, non-chipping "Super-Tuff" steel, skillfully hardened and tempered.
9 PC 4297—Please state size wanted.

Length	Stock	Edge	Shpg. wt.	Each
4 1/2 inches	3/4 inch	1/2 inch	4 oz.	29c
6 inches	3/4 inch	1/2 inch	5 oz.	45c
6 inches	1/2 inch	3/4 inch	7 oz.	59c
6 3/4 inches	3/4 inch	1/2 inch	14 oz.	82c
7 1/2 inches	3/4 inch	1/2 inch	1 lb.	98c

CRAFTSMAN Pry Bar

G Combination pry and jimmy bar; forged from "Super-Tuff" steel, correctly hardened and tempered. Made from 1/2-inch square stock. Length 16 inches.
9 PC 4283—Shpg. wt. 1 lb. 10 oz. **89c**

CRAFTSMAN Prick Punches

H Forged "Super-Tuff" steel; tempered, hardened, tapered point. State size.
9 PC 4284— $\frac{3}{4}$ x4 1/2 in. Shpg. wt. 3 oz. **32c**
 $\frac{1}{2}$ x6 in. Shpg. wt. 6 oz. **42c**

CRAFTSMAN Center Punches

J Forged from "Super-Tuff" steel. State size wanted.
9 PC 4286— $\frac{3}{4}$ x4 1/2 inches. Shpg. wt. 3 oz. **32c**
 $\frac{1}{2}$ x6 inches. Shpg. wt. 6 oz. **45c**

CRAFTSMAN Line-up Punches

K Forged from "Super-Tuff" steel. State size wanted.
9 PC 4290— $\frac{3}{16}$ x1 1/2x9 inches. Shpg. wt. 7 oz. **59c**
 $\frac{1}{4}$ x3 1/2x12 in. Shpg. wt. 1 lb. 2 oz. **79c**

CRAFTSMAN Pin Punches

L Forged from "Super-Tuff" steel, tempered and hardened. Accurately sized. State size wanted.

Point size	1/16 in.	1/8 in.	3/16 in.	1/4 in.	3/8 in.
Stock	3/16 in.	1/2 in.	5/8 in.	3/4 in.	1 in.
Shpg. wt.	3 oz.	3 oz.	4 oz.	5 oz.	6 oz.
9 PC 4288	27c	29c	35c	42c	42c

CRAFTSMAN Star Drills

M Forged from "Super-Tuff" steel. Oil tempered. Length 12 inches. Please state size wanted.

Size	1/4 in.	5/16 in.	3/8 in.	1/2 in.	5/8 in.	3/4 in.
Shpg. wt.	9 oz.	9 oz.	10 oz.	12 oz.	1 lb.	1 lb. 6 oz.
9 PC 4305	32c	35c	37c	49c	62c	69c

CRAFTSMAN Automatic Screwdrivers and Accessories

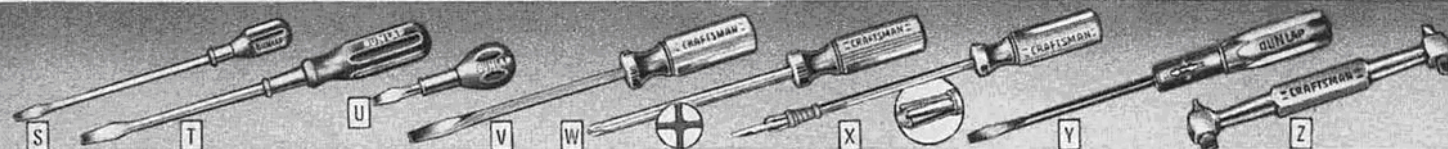
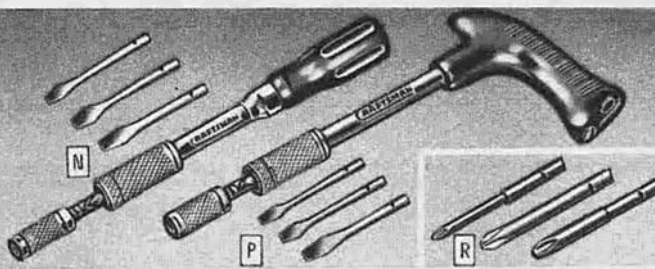
Professional quality; for heavy duty use. Polished steel frames. Precision machined, hardened "Super-Tuff" steel spirals give powerful action. Drive or draw screws simply by pushing on handle. Left or right hand ratchet, or can be set rigid for use as regular screwdriver. Ideal for use in cramped spaces. With 3 bits (small, medium and large).

N 9 PC 4138—Standard size. Straight hardwood handle. Length extended with bit 18 1/2 inches. Shpg. wt. 1 lb. 8 oz. **\$3.79**
9 PC 4134—Large size. Straight hardwood handle. Length extended with bit 25 inches. Shipping weight 1 lb. 12 oz. **\$4.75**

P 9 PC 4140—Standard size. Pistol-grip plastic handle. Pistol grip handle gives more leverage than straight type handle. Handle made of Tenite, the plastic that is virtually unbreakable in ordinary use. Bits may be stored in handle. Length extended with bit is 19 inches. Shipping weight 1 pound 8 ounces. **\$3.89**

9 PC 4143—Chuck and 8 Drills. (Not shown). Converts 9PC4138 and 9PC4140 screwdrivers (above) into drills. Not suitable for use with 9PC4134. Eight drills, 1/16 to 1/4 inch. Shipping weight 3 ounces. **98c**

R CRAFTSMAN 3-piece Phillips Screwdriver Bit Sets. For automatic screwdrivers, as listed below. Bit sizes 1, 2 and 3.
9 PC 4115—Fits CRAFTSMAN 9PC4138, 9PC4140 and 9PC4141; Yankee 30A, 130A; Millers Falls 61A, 610A; Greenlee 442, 452. Shpg. wt. 6 oz. **\$1.29**
9 PC 4116—Fits CRAFTSMAN 9PC4134; Yankee 31A, 131A; Millers Falls 62A, 620A; Greenlee 443, 453. Shipping weight 6 oz. **\$1.29**



The correct screwdriver for each job... you'll find a complete selection to choose from below!

S DUNLAP Cabinet Screwdrivers. Tempered carbon steel blades securely attached to black hardwood handles. Metal ferrules.
9 PC 4135—State size wanted.

Blade, in.	2 1/2x 3/16	4 1/2x 3/16	6 1/2x 3/16
Shpg. wt.	4 oz.	5 oz.	6 oz.
Each	15c	15c	19c

T DUNLAP general purpose Screwdrivers. Tempered carbon steel blades securely attached to black hardwood handles. Metal ferrules. Available in three sizes, as below:
9 PC 4137—State size wanted.

Blade, inches	3x 1/32	4x 1/16	6x 1/16
Shpg. wt.	4 oz.	6 oz.	8 oz.
Each	17c	19c	25c

U DUNLAP Stub Screwdriver. For close work. 1 1/2 inch alloy steel blade. Black hardwood handle, smooth ribbed finish. Metal ferrule. 4 1/2 in. over-all.
9 PC 4136—Shpg. wt. 4 oz. **23c**

V CRAFTSMAN heavy duty Screwdrivers. Square stock "Super-Tuff" steel blades. Shock-proof, transparent, amber-colored handles... tough, stand great abuse!
9 PC 4148—Please state size wanted.

Blade, in.	Shpg. wt.	Each
4x 1/4	5 oz.	59c
6x 1/4	6 oz.	75c
8x 1/4	10 oz.	95c
9x 1/4	12 oz.	69c
12x 1/4	14 oz.	95c

W CRAFTSMAN Phillips-style Screwdrivers. Phillips recessed screws. "Super-Tuff" steel blade. Shockproof, amber-colored handle.
9 PC 4129—Please state size wanted.

Size	For screw	Blade	Shpg. wt.	Each
1	2 to 4	3 in.	4 oz.	75c
2	5 to 9	4 in.	5 oz.	79c
3	10 to 16	6 in.	6 oz.	98c

X CRAFTSMAN Screwholding Screwdrivers. Spring steel clips hold screw to blade. "Super-Tuff" steel blade. Shockproof, transparent amber-colored handle.
9 PC 4112—Please state size wanted.

Blade, in.	2 1/2x 3/16	4x 1/8	5x 1/16	7x 1/16
Shpg. wt.	4 oz.	5 oz.	6 oz.	8 oz.
Each	45c	47c	65c	85c

Y DUNLAP Ratchet Screwdrivers. Speeds up the job... more convenient! Has left or right hand ratchet, or can be used as a rigid screwdriver. Precision ground, polished high carbon steel blade. Practically unbreakable amber plastic handle.
9 PC 4144—Regular size. 5-in. blade; 9 1/2 in. over-all. Shpg. wt. 6 oz. **89c**

9 PC 4145—Stub size. 1 1/2-in. blade; 6 in. over-all. Shpg. wt. 5 oz. **89c**

Z CRAFTSMAN Offset Screwdriver. 4-way offset; hardened steel bits set at varied angles for short turns.
9 PC 4110—Shpg. wt. 3 oz. **45c**

CRAFTSMAN PLIERS... Our finest!

Top professional quality... Precision forged from "Super-Tuff" steel

- Machine milled jaws and hand-honed cutters for better work on the toughest jobs
- Perfect, close-fit, precision joints; no side play... open and close freely
- Extra large rivet... hardened and tempered for heavy duty use and long wear
- Handles shaped and knurled for comfortable grip; polished finish throughout

CRAFTSMAN Linemen's Pliers

- A** For heavy duty repair work; both gripping and cutting. Expertly hand-honed, perfectly aligned side-cutting jaws. Milled throat; tempered nose. State size.
 9 PC 4518—Length 7 inches. Shipping weight 12 ounces... \$2.19
 Length 8½ inches. Shipping weight 1 lb. 2 oz. 2.59

CRAFTSMAN long nose Side-Cutting Pliers

- B** Just right for fine, delicate work. Carefully tempered nose; hand-honed cutters. Perfectly milled jaws; precision fitted joints. Length 6 inches.
 9 PC 4499—Shipping weight 6 ounces... \$1.65

CRAFTSMAN Diagonal-cutting Pliers

- C** For cutting wire on switchboards, automobile ignition systems, etc. Expertly hand-honed cutters. Perfectly milled jaws; precision fitted joints.
 9 PC 4506—Please be sure to state length wanted when ordering.
 Length 6 inches. Shipping weight 6 ounces... \$1.85
 Length 7 inches. Shipping weight 8 ounces... 2.09

CRAFTSMAN Battery Pliers

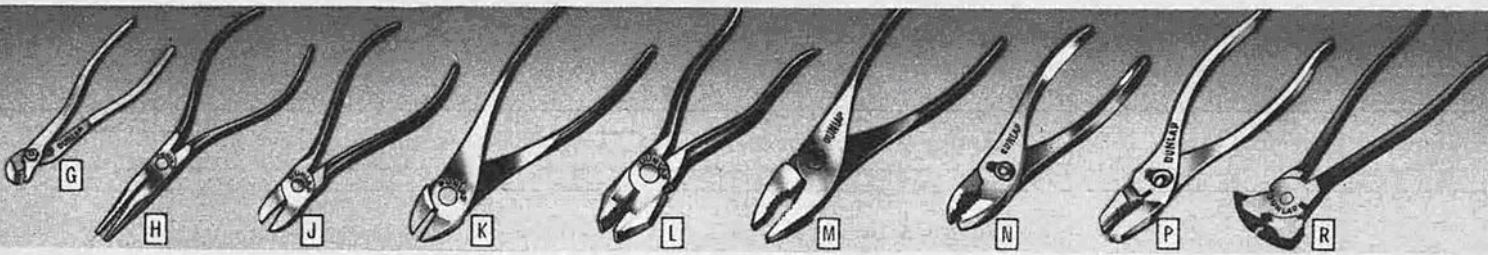
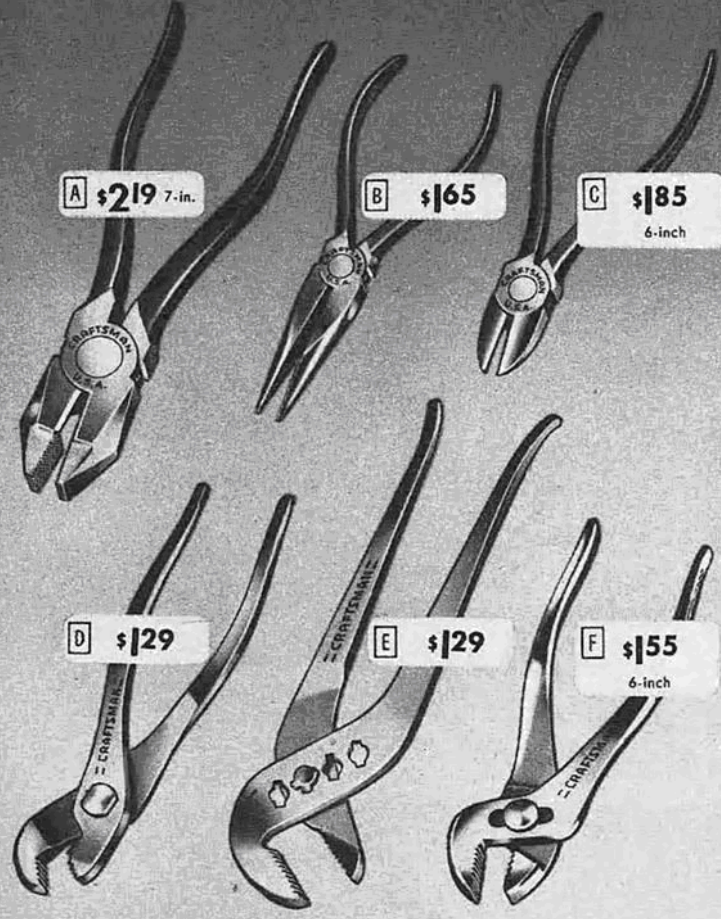
- D** Ideal pliers for battery installation work... fit all terminals. 40-degree angle head and tapered nose for working in close places. Length 7 inches.
 9 PC 4476—Shipping weight 8 ounces... \$1.29

CRAFTSMAN Water Pump Pliers

- E** For tightening water pump packing units, and large, irregular-shaped nuts. Four spacer holes give quick, non-slip adjustment; wear longer. Length 9½ in.
 9 PC 4492—Shipping weight 12 ounces... \$1.29

CRAFTSMAN Slip-Joint Pliers

- F** A combination plier-wrench. Powerful grip; great leverage. Three adjustments.
 9 PC 4528—Please be sure to state length wanted when ordering.
 Length 6 inches. Shipping weight 10 ounces... \$1.55
 Length 8 inches. Shipping weight 12 ounces... 1.79



DUNLAP Pliers... well-made, dependable Pliers at money-saving prices

- G** DUNLAP Ignition Pliers. Makes magneto jobs easier; fits small nuts used in all ignition units. Made of tempered steel. Thin jaws open 0 to ½ inch. Easy action slip joint. Over-all length 4¾ inches.
 9 PC 4509—Shipping weight 4 ounces... 49c

- H** DUNLAP long chain-nose Side-cutting Pliers. A good pliers for fine, delicate work. Made of forged alloy steel, with polished head and blued handles. Tempered nose; milled jaws. Honed cutters. Smooth, comfortable handles. Over-all length 6 inches.
 9 PC 4511—Shipping weight 6 ounces... \$1.29

- J** DUNLAP Diagonal-cutting Pliers. Forged steel, tempered and hardened. Honed cutters. Polished head; smooth blued handles. Free and easy working action. Over-all length 6 inches.
 9 PC 4510—Shipping weight 6 ounces... \$1.65

- K** DUNLAP wide-jaw Diagonal-cutting Pliers. For heavy duty work; cutting steel wire, etc. Forged steel. Hand-honed cutters. Over-all length 7 inches.
 9 PC 4508—Shipping weight 8 ounces... \$1.69

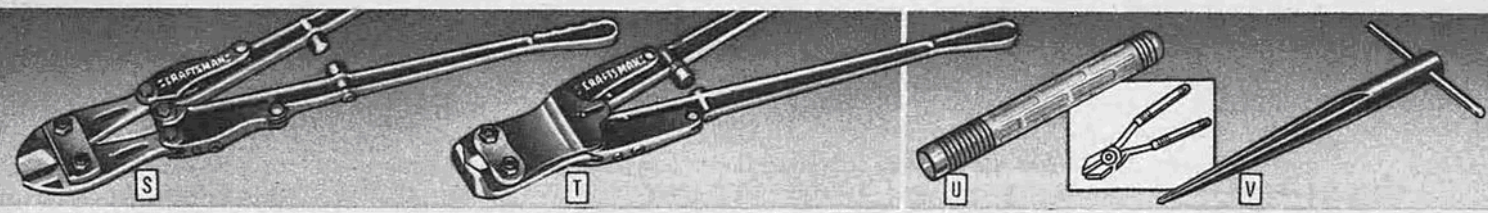
- L** DUNLAP Linemen's Pliers. For heavy duty wire cutting and electrical work. Forged steel, hardened and tempered. Perfectly aligned side cutters; hand filed and honed. Precision fitted joint; milled jaws.
 9 PC 4512—Please state size wanted when ordering.
 Length... 6 inches... 7½ inches... 8¾ inches.
 Shpg. wt. 9 ounces... 12 ounces... 1 pound.
 Each... \$1.55... \$1.75... \$2.15

- M** DUNLAP slip-joint Side-cutting Pliers. 2 adjustments. Forged alloy steel. Honed cutters. Flush head rivet. Smooth blued handles. Length 7½ inches.
 9 PC 4507—Shipping weight 12 ounces... \$1.85

- N** DUNLAP Slip-joint Pliers. For general purpose use. Alloy steel, hardened and tempered. Machine milled jaws; easy action slip joint. Two adjustments. Satin nickel finish. Length 6 inches.
 9 PC 4491—Shipping weight 8 ounces... 49c

- P** DUNLAP heavy-duty Slip-joint Pliers. Universal pattern. For jobs too tough for ordinary pliers. "Super-Tuff" alloy steel. Two adjustments. Curved jaw fits objects of almost any shape. Wire cutting knives pass at angle for clean cut. Satin chrome finish; highly polished head. Length 8 inches.
 9 PC 4515—Shipping weight 12 ounces... 98c

- R** DUNLAP Fencing Pliers. Staple puller, wire splicer, pincer, cutter and hammer... all in one handy tool. Drop forged steel. 10¼ inches long.
 9 PC 4522—Shipping weight 2 pounds... \$1.75



CRAFTSMAN Bolt Cutters

- S** High carbon alloy tool steel jaws. Black enameled malleable handles. Compound leverage gives tremendous cutting power. Perfectly aligned; precision ground.

Catalog number	Length inches	Cuts bolts	Shpg. wt. lbs.	Each
9 PC 6567	18	5/16 in.	3	\$5.49
99 PC 06568	24	3/8 in.	6	7.15
99 PC 06569	30	1/2 in.	10	9.25
99 PC 06570	36	5/8 in.	14	11.50

CRAFTSMAN 2-way Bolt Cutters

- T** Combination bolt cutters; cut on either side or end of work. For cutting flush or close in corners. 2 cutter blades. High carbon alloy tool steel jaws between two steel plates; adjustable for wear. Black enameled malleable handles. Compound leverage gives tremendous cutting power.

Cat. no.	Length	Cuts bolts	Shpg. wt.	Each
9 PC 6575	18 in.	3/4 in.	6 lbs.	\$7.35
99 PC 06571	24 in.	1 in.	6 lbs.	9.15
99 PC 06576	30 in.	1 1/2 in.	14 lbs.	10.95

Plastic Plier Grips

- U** For insulating plier handles and to provide a firm, non-slipping, comfortable grip. Ideal for linemen, electricians, auto mechanics, etc. Of tough, amber-color plastic. Easy to put on; with instructions.
 9 PC 4516—State length wanted.

Length	Fit pliers	Shpg. wt.	Pair
4½ in.	6 and 7-in.	3 oz.	39c
5 in.	8-in.	3 oz.	39c

Taper Reamer

- V** Repairman's type. For enlarging holes in wood, plastics, metal, etc. Made of highest grade tool steel; hardened and tempered for fast, clean work. Reams holes from 1/8 to 1/2 inch in diameter. Has fixed "T" handle. Over-all length, 5¾ inches. Shipping weight 4 ounces.
 9 PC 5479... \$1.09

CRAFTSMAN SCREWPLATES

Have a screwplate set handy . . . No other tool can do the job of cutting threads

CRAFTSMAN Machinists' Screwplate Set

A Save countless hours by having a screwplate set handy . . . it's a "must" for re-threading rusted or damaged bolts or rods, or for cutting new threads in emergencies. Professional quality. Meets rigid Federal Specifications GGG-T-581. Cuts NC (USS) coarse right-hand threads for carriage, machine and stove bolts; NF (SAE) fine right-hand threads for bolts used on autos and tractors. Sharp, clean-cut dies take hold easily and cut readily with little pushing effort. Taps and dies made from "Super-Tuff" steel to resist distortion and breakage. Heat treatment is full length on all taps and dies. Cutting teeth are properly hardened and tempered. Adjustable two-piece dies can be set for deep or shallow threads as desired. Individual guide rings insure accurate threads. Set furnished in strong, convenient hardwood box.

NC Coarse Bolt Threads. Threads per inch for sizes given:
 $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -13, $\frac{9}{16}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{7}{8}$ -9 and 1-8.

NF Fine Threads. Threads per inch for sizes given:
 $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{8}$ -24, $\frac{7}{16}$ -20, $\frac{1}{2}$ -20, $\frac{9}{16}$ -18, $\frac{5}{8}$ -18 and $\frac{3}{4}$ -16.

Cat. no.	Cuts	Size of Cuts	Shpg. wt.	Set
9 PC 5493	5	NC $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$	7 lbs. 10 oz.	\$15.25
99 PC 05499	7	NC $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$	16 pounds	23.25
99 PC 05500	9	NC $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{3}{4}$, 1	21 pounds	36.95
9 PC 5501	5	NF $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$	7 lbs. 4 oz.	15.25
99 PC 05504	7	NF $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$	16 pounds	23.25
99 PC 05505	16	1 ea. NC & NF in $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$ and $\frac{3}{4}$ -in. sizes	21 pounds	42.25

CRAFTSMAN 25-piece Button Tap and Die Set

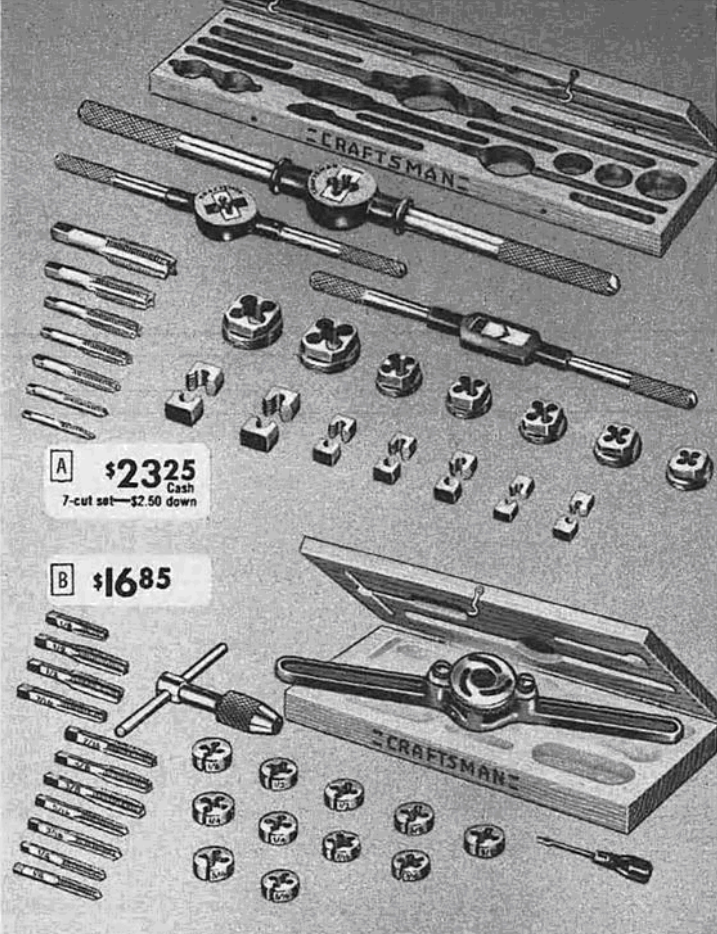
B Especially designed for automobiles and general repair work. Simple and practical design; a great favorite with machinists everywhere. Taps and dies are made from strong "Super-Tuff" tool steel; cutting edges hardened and tempered for edge-holding qualities. The adjustable die holder and tap wrench are accurately made of high quality steel. Dies are 1 inch. SNC (USS) coarse thread taps, and 5 NC (USS) coarse thread dies (sizes $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14 and $\frac{1}{2}$ -13); 5 NF (SAE) fine thread taps and 5 NF (SAE) fine thread dies (sizes $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{8}$ -24, $\frac{7}{16}$ -20 and $\frac{1}{2}$ -20); adjustable die holder tap wrench; screwdriver; $\frac{1}{4}$ -inch standard pipe tap and die. Set packed in strong hardwood box for convenience in storage and carrying.

9 PC 5460—Shipping weight 5 pounds. 25-piece set **\$16.85**

CRAFTSMAN 13-piece Machine Screw Tap and Die Set

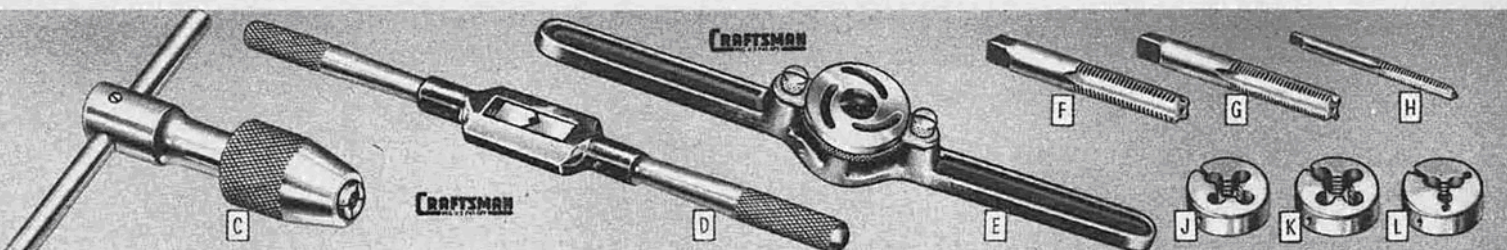
Same high quality construction as above. Set consists of: five machine screw taps and five $\frac{1}{16}$ -inch split round dies (sizes 4-36, 6-32, 8-32, 10-24 and 10-32); 1-inch adjustable die holder; No. 0 straight handle tap wrench, and screwdriver.

9 PC 5450—Shipping weight 3 pounds. 13-piece set **\$8.15**



A \$2325
Cash
7-cut set—\$250 down

B \$1685



Make up your own set with CRAFTSMAN individual Tap and Die Parts

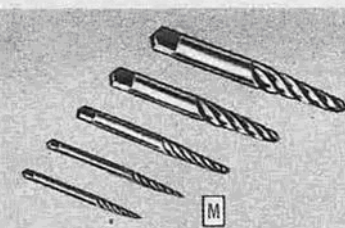
Same fine professional quality as in 9 PC 5460 CRAFTSMAN Button Tap and Die Set above. Same sharp, clean-cutting taps and dies . . . same tempered and hardened

cutting edges to remain keen a long time. Shipping weight for taps each, 2 ounces; for dies each, 4 ounces. Please be sure to state size wanted when ordering.

- C** 9 PC 4066—Tap Wrench. For NC or NF taps. Capacity $\frac{1}{16}$ to $\frac{1}{4}$ inch. Also for machine screw taps, sizes 4, 6, 8 and 10. Shpg. wt. 12 oz. **\$1.09**
- D** 9 PC 4067—Tap Wrench. For NC or NF taps. Capacity $\frac{1}{4}$ to $\frac{1}{2}$ inch. Shipping weight 12 ounces. **\$1.55**
- E** 9 PC 4082—Tap Wrench. Size 0. Fits taps $\frac{1}{16}$ to $\frac{1}{4}$ inch. Also ideal for holding reamers. Shipping weight 4 ounces. **\$2.65**
- F** 9 PC 4083—Tap Wrench. Size 5. Fits taps $\frac{1}{32}$ to $\frac{9}{16}$ inch. Shpg. wt. 1 lb. **\$4.59**
- G** 9 PC 5476—Adjustable Guide Stock. For 1-inch round dies (at right). Shpg. wt. 1 lb. **\$1.69**

NC (USS) Coarse Thread Taps		NF (SAE) Fine Thread Taps		Machine Screw Taps	
F	Size, inch.	G	Size, inch.	H	Screw gauge No.
	Threads per inch		Threads per inch		Threads per inch
9 PC 5461—Each.	$\frac{1}{4}$ 20, $\frac{5}{16}$ 18, $\frac{3}{8}$ 16, $\frac{7}{16}$ 14, $\frac{1}{2}$ 13	9 PC 5462—Each.	$\frac{1}{4}$ 28, $\frac{5}{16}$ 24, $\frac{3}{8}$ 24, $\frac{7}{16}$ 20, $\frac{1}{2}$ 20	9 PC 5463—Each.	4 36, 6 32, 8 32, 10 24, 10 32
	49c 55c 59c 69c 85c		49c 55c 59c 69c 85c		32c 32c 32c 35c 35c

1-inch Round Dies NC (USS) Coarse Threads		1-inch Round Dies NF (SAE) Fine Threads		1-inch Machine Screw Dies	
J	Size, inch.	K	Size, inch.	L	Screw gauge No.
	Threads per inch		Threads per inch		Threads per inch
9 PC 5464—Each.	$\frac{1}{4}$ 20, $\frac{5}{16}$ 18, $\frac{3}{8}$ 16, $\frac{7}{16}$ 14, $\frac{1}{2}$ 13	9 PC 5466—Each.	$\frac{1}{4}$ 28, $\frac{5}{16}$ 24, $\frac{3}{8}$ 24, $\frac{7}{16}$ 20, $\frac{1}{2}$ 20	9 PC 5469—Each.	4 36, 6 32, 8 32, 10 24, 10 32
	89c 89c 89c 89c 89c		89c 89c 89c 89c 89c		89c 89c 89c 89c 89c

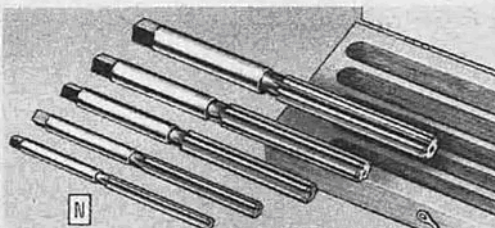


CRAFTSMAN Screw Extractors

M Made of forged tool steel, properly tempered and hardened. Square shank. So handy for removing broken screws. Shipping weight each 4 ounces.

9 PC 6736—Please state size wanted.

No.	For Screw	Drill size	Each
1.	$\frac{3}{16}$ - $\frac{1}{4}$ in.	$\frac{1}{16}$ in.	27c
2.	$\frac{1}{4}$ - $\frac{5}{16}$ in.	$\frac{3}{32}$ in.	29c
3.	$\frac{5}{16}$ - $\frac{3}{8}$ in.	$\frac{1}{8}$ in.	34c
4.	$\frac{3}{8}$ - $\frac{1}{2}$ in.	$\frac{3}{16}$ in.	39c
5.	$\frac{1}{2}$ - $\frac{3}{4}$ in.	$\frac{1}{4}$ in.	43c



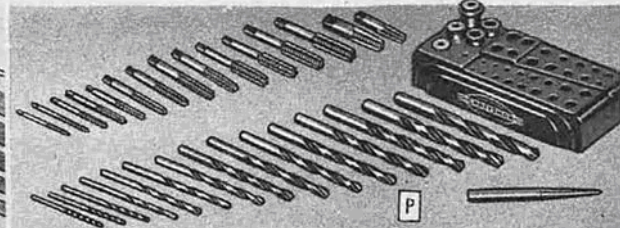
CRAFTSMAN 5-piece Hand Reamer Set

N Straight-flute reamers for rapid and accurate sizing of holes in bushings in autos, motors, etc. High carbon steel, 5 sizes: $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ -inch. Accuracy within .0002 inch. In wood case.

9 PC 5490—Shpg. wt. 1 lb. 8 oz. 5-pc. set **\$8.35**

9 PC 5489—Individual Reamers. Please state size wanted.

Size	Shipping weight	Price each
$\frac{1}{4}$ inch.	4 ounces.	\$1.55
$\frac{5}{16}$ inch.	6 ounces.	1.65
$\frac{3}{8}$ inch.	8 ounces.	1.75
$\frac{7}{16}$ inch.	10 ounces.	1.89
$\frac{1}{2}$ inch.	10 ounces.	2.15



CRAFTSMAN 42-piece Tap and Drill Set

P With this set you lose no time in selecting the right size tap and corresponding drill; no guessing . . . drill, tap and guide sizes plainly marked on both tools and stand. Set consists of 15 taps (8-32, 10-24, 12-24, 14-20, $\frac{1}{8}$ -18, $\frac{1}{4}$ -18, $\frac{1}{2}$ -14, $\frac{3}{4}$ -13 NC), (14-28, $\frac{1}{8}$ -24, $\frac{1}{4}$ -24, $\frac{1}{2}$ -20, NF), ($\frac{1}{8}$ and $\frac{1}{4}$ pipe); 15 drills of sizes to correspond with taps above; 9 tap guides (prevent broken taps, assure proper alignment when starting tap); 1 self-tension guide body; 1 center punch; and 1 die-cast aluminum stand.

9 PC 5477—Shipping weight 4 lbs. 4 oz. 42-piece set **\$19.75**

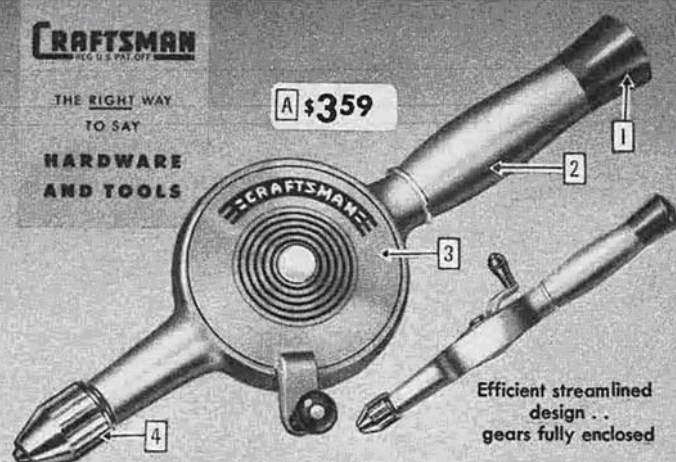
9 PC 5478—Stand only, with 9 tap guides and 1 guide body. (No drills or taps.) Shipping weight 2 pounds 4 ounces. **\$3.85**

Shop at Sears and save

Zone 2 PAGE 19 . . TAPS AND DIES

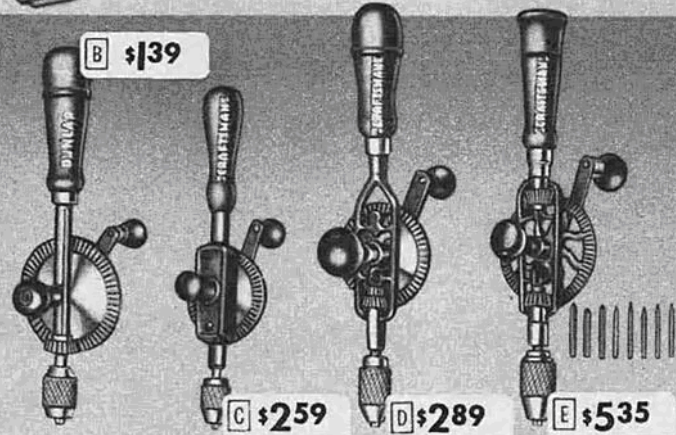
THE RIGHT WAY
TO SAY
HARDWARE
AND TOOLS

A \$359



Efficient streamlined
design...
gears fully enclosed

B \$139



C \$259

D \$289

E \$535

CRAFTSMAN HAND DRILL REG. U.S. PAT. OFF.

**New streamlined design... Enclosed gears
Light, strong, non-rusting aluminum**

- 1 Deep threaded blue plastic cap... free, easy turning plastic grip
- 2 Hollow handle holds extra drills handy for immediate selection
- 3 All gears fully enclosed so they can't catch dirt or drillings
- 4 Genuine Jacobs' three-jaw chuck takes round shank drills up to 1/4-inch

A Our own exclusive design! And, honestly, we think it's the greatest improvement ever made in hand drill design! Made of light-weight, super-strong die cast aluminum, it can never rust! Amazingly light in weight and easy to handle! No exposed gears to nick fingers or catch dirt or drillings... gears are fully enclosed in aluminum housing. In fact, the driving gear is actually cast as an integral part of the turning section... made to mesh perfectly with the hardened steel pinion. Enclosed gear construction permits better lubrication than ever possible before!

Two-piece die-cast aluminum frame is unusually compact... only 12 1/2 inches long over-all... exceptionally easy to get into those tight, out-of-the-way spots! Handle is hollow... holds extra drills... has deep-threaded plastic top. Free-turning plastic grip on handle. New type Jacobs' three-jaw chuck is the finest available for this type drill... takes round shank drills up to 1/4-inch diameter. Jaws held together with Dupont neoprene; no springs to weaken. Drills wood or metal.

9 PC 4242—CRAFTSMAN streamlined Hand Drill. Shipping wt. 1 lb. 12 oz. **\$3.59**

OUNLAP Hand Drill REGISTERED

B For home owners and handy men. Rigid all-steel frame. Three-jaw chuck takes round shank drills up to 1/4-inch. Gears mesh perfectly; works smoothly. Screw-top wood handle for storing drills. Over-all length 11 inches.

9 PC 4241—Shpg. wt. 1 lb. 5 oz. **\$1.39**

CRAFTSMAN Hand Drill REGISTERED

D Professional quality. Drills wood and metal. Three-jaw chuck for round shank drills up to 1/4-inch. Perfectly matched machine-cut gears run smoothly. Screw-cap hollow hardwood handle for storing drills. Length 12 1/2 in.

9 PC 4234—Shpg. wt. 2 lbs. 10 oz. **\$2.89**

Set of 8 drills. Fit all hand drills. Sizes 1/16 to 1 1/8-inch by 64ths. For drilling wood. Shpg. wt. 4 oz.

9 PC 4230..... Set of 8 **45c**

CRAFTSMAN Hand Drill REGISTERED

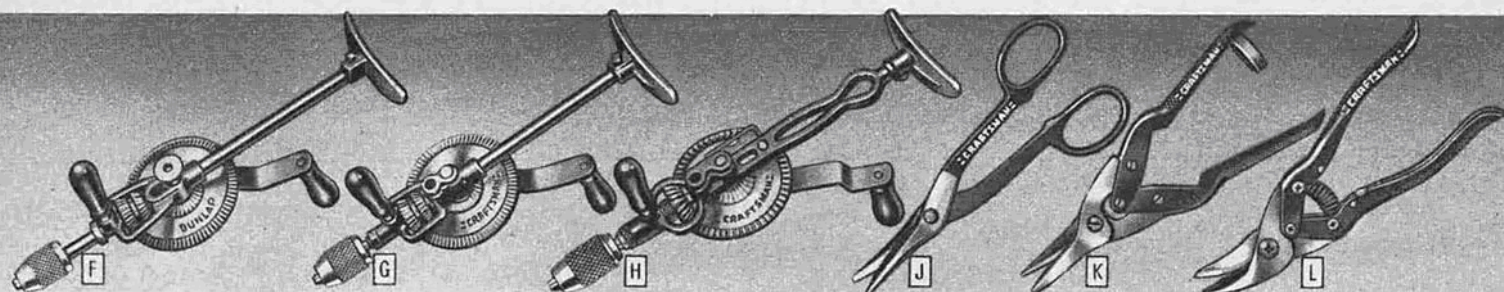
C Professional quality. Drills wood and metal. Streamlined die-cast frame. Double pinion gear. Machine-cut pinion and gears; mesh perfectly. Three-jaw chuck for round shank drills up to 1/4-inch. Mahogany finished hardwood handle. Over-all length 12 inches.

9 PC 4243—Shpg. wt. 2 lbs. 10 oz. **\$2.59**

CRAFTSMAN Hand or Breast Drill REGISTERED

E Large, heavy duty type. Also serves as small breast drill... top of handle is flared. Drills wood or metal. Three-jaw chuck for round shank drills up to 1/4-inch. Gears and pinions are machine-cut; perfectly matched; smooth running. Hollowed hardwood handle stores drill bits. Eight drill bits included: 1/16 to 1 1/8-inch by 64ths. Over-all length 14 1/2 in.

9 PC 4244—Shpg. wt. 3 lbs. 3 oz. **\$5.35**



BREAST DRILLS... 2 speed

OUNLAP 2-speed Breast Drill REGISTERED

F Good quality... priced low! Two-speed gear shift to suit various drilling jobs. Three-jaw chuck for round shank drills up to 1/2-inch. Machine-cut gears and pinions. Over-all length 17 in. Shpg. wt. 5 lbs. 2 oz.

9 PC 4237..... **\$3.49**

CRAFTSMAN 2-speed Breast Drill REGISTERED

G Better quality. Heavy duty, quiet, smooth-operating ball-bearing construction. Three-jaw chuck for round shank drills up to 1/2-inch. Drills metal or wood. Efficient two-speed gear shift to suit various drilling jobs. Machine-cut gears and pinions. Over-all length 16 1/2 inches. Shipping weight 5 lbs. 10 oz.

9 PC 4239..... **\$4.29**

CRAFTSMAN Breast Drill REGISTERED

H Our finest professional quality designed for longest heavy duty service. Two-speed gear shift gives best speed for each job. Drills wood or metal equally well if proper bits are used. Well-protected spirit level helps you drill straight holes. Adjustable breast-plate. Smooth operating ball-bearing construction. Three-jaw chuck for round shank drills up to 1/2-inch. Gears and pinions are accurately machine-cut... perfectly meshed... silent and easy running. Over-all length 17 1/2 inches. Shipping weight 6 lbs. 8 oz.

9 PC 4236..... **\$7.35**

SNIPS... Tinner's and Aviation

CRAFTSMAN Tinner's Snips REGISTERED

J Finest professional quality. Duck-bill type. Cut straight, circular or irregular shapes without bending metal. Blades are expertly forged from "Super-Tuff" steel, hardened and tempered for long life... made to hold their keen edge! Blades shaped with crown that draws metal being cut into the jaws. Has great leverage necessary for cutting heavy metal. Handles have gunmetal blued finish; blades are polished.

9 PC 4546—State length wanted.

Length	Cut	Shpg. wt.	Each
7 in.	1 3/4 in.	12 oz.	\$1.29
10 in.	2 1/4 in.	1 lb. 8 oz.	1.75
12 in.	3 in.	2 lbs.	2.15
13 1/2 in.	3 3/4 in.	2 lbs. 10 oz.	2.98

CRAFTSMAN Aviation Snips REGISTERED

K Ideal for aircraft and sheet metal shops. Favored by mechanics. Tough and durable... forged from "Super-Tuff" steel, expertly hardened and tempered. Serrated blades prevent metal slipping while being cut. Strong spring. Compound leverage gives powerful cutting force. Over-all length 10 inches.

L General purpose type. Cuts right and left hand, circular and irregular shapes. Cuts 1 1/4 in. Efficient safety catch on handles.

9 PC 4536—Shpg. wt. 1 lb. 6 oz. **\$3.39**

M Cuts left or right hand only. Either type will cut circular and irregular shapes! Cuts 1 1/4 inches. Special design quick-release safety catch. Drop forged shearing edges cut clean to their very tips. Shipping weight 1 lb.

9 PC 4535—For left hand cuts only..... **\$2.75**

9 PC 4534—For right hand cuts only..... **\$2.75**



Straight Back Wire Brushes

M Used for removing old paint from wood and metal, cleaning butchers' blocks, etc. 9 PC 3652—Small size. Five rows of 10 tufts of wire, each 1 1/4 inches long, set in 4 1/2 x 1 1/2-inch wood block. Shpg. wt. 5 oz. **19c**

9 PC 3653—Large size. Six rows of 19 tufts of wire, each 1 1/4 inches long, set in 7 1/4 x 2 1/4-inch wood block. Shpg. wt. 6 oz. **32c**



Long Handle Wire Brush

N For scraping wood and metal. Curved handle is 14 inches long x 1 inch wide. Three rows of 19 tufts of wire, each tuft 1 1/4 inches long, securely set in solid wood block. Block is easy to hold while using.

9 PC 3668—Shpg. wt. 8 oz. **27c**



Long Handle Wire Brush

P Efficient, inexpensive brush for use on wood and metal surfaces. Curved wood handle is 12 inches long and 3/4 inch wide. Made with three rows of eleven tufts of wire, each tuft being 1 1/4 inches long. Tufts are securely set in solid wood block.

9 PC 3654—Shpg. wt. 5 oz. **19c**



Combination Brush and Steel Scraper

R Easily removes paint, varnish, rust, scale, etc. Especially suitable for removing grease and carbon from motor blocks, etc. Shaped wood handle, 11 x 1 1/2 inches, with four rows of 10 wire tufts, each 1 1/4 inches long. Has 2 3/4-inch wide chiseled edge polished steel scraper at one end of brush.

9 PC 3647—Shpg. wt. 13 oz. **75c**

CRAFTSMAN DRILL SETS

Our finest, professional quality drills In handy drill stands for easy selection

- Highest quality steels, expertly hardened and tempered to stay sharp . . . in your choice of low speed carbon tool steel or high speed steel.
- Precision ground to exact size; cut easily and cleanly in wood or metal.
- Handy drill stands to keep drills where you can find them. Hole sizes clearly marked; make selection of drills easier . . . may be used as drill gauge.

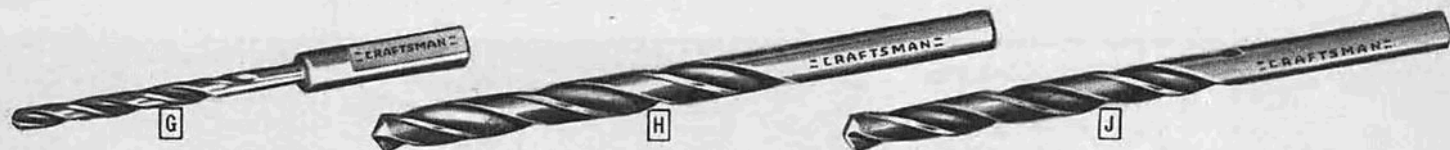
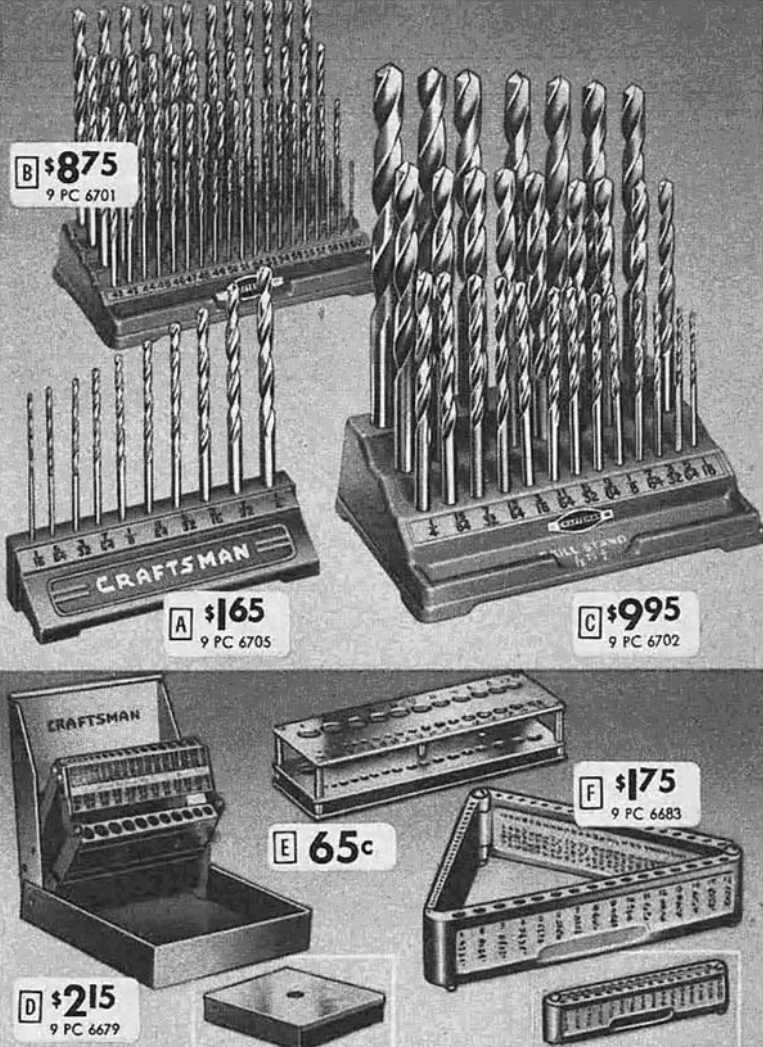
Our finest quality CRAFTSMAN twist drills for home, shop and industrial use. Expertly hardened and tempered to stand up under long use. Precision ground to cut wood and metal easily and cleanly. Use carbon tool steel drills for hand, breast or bench drills operating at relatively low speeds; use high speed drills for high speed use in electric drills and power-driven drill presses. Drill stands have hole sizes clearly marked for quick selection of the size of drill you need. Drill stands may be used as drill gauges if you wish.

- A** Ten-piece drill sets in drill stands. Sizes 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/2-inch. Shipping weight, per set, 8 ounces.
- 9 PC 6705—Ten-piece carbon tool steel drill set and stand. \$1.65
- 9 PC 6703—Ten-piece high speed steel drill set and stand. \$3.19
- B** Sets of sixty wire gauge drills, sizes 1 to 60, in drill stands. Choice of carbon tool steel or high speed steel. Shipping weight, per set, 2 lbs. 12 oz.
- 9 PC 6701—Sixty-piece carbon tool steel drill set and stand. \$8.75
- 9 PC 6707—Sixty-piece high speed steel drill set and stand. \$18.50
- C** Sets of twenty-nine drills, sizes 1/16 to 1/2-inch by 64ths, in drill stands. Carbon tool steel or high speed steel. Shipping weight, per set, 4 lbs. 2 oz.
- 9 PC 6702—Twenty-nine-piece carbon tool steel drill set and stand. \$9.95
- 9 PC 6704—Twenty-nine-piece high speed steel drill set and stand. \$21.75

DRILL CASES and Stands

Sears highest quality drill cases and stands to keep your drills neatly in place and handy to find when you want them. Three different styles to choose from.

- D** CRAFTSMAN all-metal Drill Cases. Hole sizes and decimal equivalents clearly marked. Handy tap drill table. Folds compactly to fit into tool chest. Lift cover, and drills instantly come into position for quick selection.
- 9 PC 6678—For set of 29 drills, 1/16 to 1/2-in. by 64ths. Shpg. wt. 4 lbs. 4 oz. \$4.19
- 9 PC 6679—For set of 60 wire gauge drills, 1 to 60. Shpg. wt. 1 lb. 8 oz. \$2.15
- E** CRAFTSMAN Aluminum Drill Stands. Sturdily made of 3 heavy gauge aluminum and steel plates, each about 6x2 1/4 in. with 5 supporting rivets and spacers. Large numerals show drill hole sizes so you can use stand as drill gauge.
- 9 PC 6693—For set of 29 drills, 1/16 to 1/2-in. by 64ths. Shpg. wt. 6 oz. 65c
- 9 PC 6694—For set of 60 wire gauge drills, 1 to 60. Shpg. wt. 6 oz. 65c
- F** Folding Drill Stands. Popular folding type chrome plated die-cast metal stand with decimal equivalents, letter size drills and tap size requirements shown clearly on sides. Non-tilting triangular shape when open.
- 9 PC 6683—For set of 60 wire gauge drills, 1 to 60. Shpg. wt. 1 lb. 6 oz. \$1.75
- 9 PC 6692—For set of 29 drills, 1/16 to 1/2-in. by 64ths. Shpg. wt. 2 lbs. \$2.45



CRAFTSMAN DRILLS . . . Complete selection of Blacksmiths' and Twist Drills

CRAFTSMAN Blacksmiths' Drills

G Sears finest, professional quality. Made of finest carbon tool steel, expertly hardened and tempered to cut fast and stay sharp. Precision ground. Have 1/2-inch round shank with one side flattened. For low-speed use in post and bench drills only. Not to be used for high speed in electric drills, drill presses, etc.

9 PC 6713—Please state size wanted.

Size	Lgth.	Shpg.	Each	Size	Lgth.	Shpg.	Each
In.	In.	wt.		In.	In.	wt.	
1/16	4 1/2	3 oz.	37c	1/8	6	4 oz.	69c
5/32	5 1/2	3 oz.	42c	3/16	6	4 oz.	79c
1/4	5 3/4	3 oz.	45c	1/2	6	5 oz.	85c
5/8	5 3/4	3 oz.	49c	3/4	6	6 oz.	\$1.10
1 1/4	6	3 oz.	55c	1 1/2	6	7 oz.	1.45
1 3/4	6	4 oz.	59c	2	6	9 oz.	1.75
2 1/4	6	4 oz.	65c	2 1/2	6	12 oz.	2.15

CRAFTSMAN Twist Drills . . . fractional sizes

H Use carbon steel drills for slow speed in hand or breast drills; high speed drills for electric drills, power-driven drill presses, etc. Perfectly tempered. Precision ground. Please be sure to state size wanted.

Diam.	Lgth.	Shpg.	9PC6698	9PC6699	Diam.	Lgth.	Shpg.	9PC6698	9PC6699
In.	In.	wt.	Carbon steel	High speed	In.	In.	wt.	Carbon steel	High speed
1/16	2 1/2	1 oz.	10c	22c	1/8	3 1/2	1 oz.	19c	47c
5/64	2 3/4	1 oz.	12c	23c	1/4	4	2 oz.	20c	49c
3/32	2 3/4	1 oz.	12c	24c	5/16	4 1/2	2 oz.	22c	55c
1/8	2 3/4	1 oz.	12c	25c	3/8	5 1/2	2 oz.	25c	59c
5/16	2 3/4	1 oz.	13c	26c	1/2	6	3 oz.	27c	69c
3/8	3 1/4	1 oz.	13c	27c	5/8	6 1/2	3 oz.	34c	85c
1/2	3 1/4	1 oz.	13c	28c	3/4	7	3 oz.	37c	95c
5/8	3 1/4	1 oz.	14c	31c	1 1/4	5 1/2	3 oz.	45c	\$1.09
3/4	3 1/2	1 oz.	15c	33c	1 1/2	5 1/2	4 oz.	55c	1.25
1 1/4	3 3/4	1 oz.	16c	37c	1 3/4	6	5 oz.	73c	1.55
1 1/2	3 3/4	1 oz.	18c	40c					

CRAFTSMAN Drills . . . wire gauge sizes

J High speed steel. Precision ground. For electric drills, drill presses, etc.

9 PC 6700—Shpg. wt. each 4 oz. State size.

Size	Each	Dozen	Size	Each	Dozen
1 or 2	41c	\$4.65	28, 29, 30	26c	\$2.87
3	41c	4.40	31	26c	2.53
4, 5, 6	38c	4.30	32, 33	26c	2.53
7, 8, 9	38c	3.95	34	26c	2.45
10, 11, 12	33c	3.75	35, 36	25c	2.45
13, 14, 15	33c	3.50	37, 38, 39	25c	2.28
16, 17	30c	3.30	40	25c	2.25
18	30c	3.25	41, 42	23c	2.15
19	30c	3.10	43, 44, 45	23c	2.10
20, 21	30c	3.10	46 to 49	22c	2.05
22	28c	3.00	50	22c	2.05
23, 24, 25	28c	2.90	51 to 55	20c	2.00
26, 27	28c	2.90	56 to 60	20c	1.93



CRAFTSMAN Carbide-tipped Drills for stone, marble, concrete

Steel, with carbide tips. Drills quickly, cleanly and accurately. Takes less drill sharpening. Round shank for use with electric drill or hand and breast drill.

9 PC 6711—Please be sure to state size wanted.

Size	Length	Shpg. wt.	Each	Size	Length	Shpg. wt.	Each
1/4-in.	4 in.	4 oz.	\$1.59	1/2-in.	6 in.	8 oz.	\$2.35
5/16-in.	4 in.	4 oz.	1.79	3/8-in.	6 in.	10 oz.	2.89
3/8-in.	4 in.	6 oz.	1.98	1/2-in.	6 in.	12 oz.	3.75

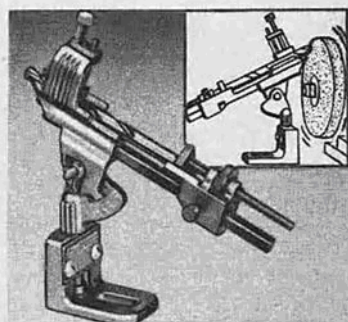
9 PC 6712—Set of 6. One each of the sizes listed above. Contained in handy artificial leather case. Shipping weight 2 pounds. Set of 6 \$13.75

Drill Grinding Attachment

\$515
CRAFTSMAN. There's been a tremendous demand for a moderately priced tool of this type! Now you can re-point your own drills with factory accuracy. Drill manufacturers always recommend use of drill grinding attachments and advise avoiding hand grinding.

Precision built with strong, non-rusting die cast aluminum frame. Over-all height 7 inches. Designed to give exceptionally accurate adjustments . . . may be adjusted for all popular drill point angles, including counter-sinks. Amazingly easy to use. Complete instructions included with each outfit.

Will handle twist drills of the following sizes: 1/8-inch to 3/4-inch fractional; No. 1 to No. 30 number size; A to Z letter size; 3.0 millimeter to 19.0 millimeter metric size. Shpg. wt. 2 lbs. 8 oz. 9 PC 6677 \$5.15



CRAFTSMAN MECHANICS' HAMMERS

Specialized types . . . of the finest Professional quality in every detail

CRAFTSMAN Mechanics' Hammers

Entire head made from "Super-Tuff" steel, heat treated and correctly hardened for strength and durability. Smooth, select white hickory handles.

A CRAFTSMAN Ball Pein Hammers

9 PC 3846—Please be sure to state size wanted when ordering.

Size	Wt. Head	Shpg. wt.	Each	Size	Wt. Head	Shpg. wt.	Each
5-0	1/4 lb.	12 oz.	\$1.09	0	1 lb.	2 lbs.	\$1.39
3-0	1/2 lb.	1 lb. 6 oz.	1.19	2	1 1/2 lb.	2 lbs. 11 oz.	1.49
00	3/4 lb.	1 lb. 12 oz.	1.29				

B CRAFTSMAN Engineers' Hammers

9 PC 3826—Please be sure to state size wanted when ordering.

Size	Wt. Head	Shpg. wt.	Each	Size	Wt. Head	Shpg. wt.	Each
2	2 lbs.	3 lbs. 12 oz.	\$1.75	4	3 lbs.	5 lbs.	\$1.95
3	2 1/2 lbs.	4 lbs. 2 oz.	1.85				

C CRAFTSMAN Riveting Hammers

9 PC 3820—Please be sure to state size when ordering.

No. 1; 7-ounce head. Shpg. weight 1 pound 3 ounces. . . . \$1.19
No. 3; 12-ounce head. Shpg. weight 1 pound 8 ounces. . . . 1.35

CRAFTSMAN Plastic Tip Hammer

D Latest and best in soft impact hammers. Replaceable Vinyl (a new discovery in plastics with longer life) faces will not chip or mushroom under hardest use . . . will not mar the finest finish. No rebound. Drop forged steel core. Second growth hickory handle. Streamlined design. State size wanted.

Catalog number	Size head	Shpg. wt.	Each
9 PC 3828	8 ounces	12 ounces	\$1.39
	16 ounces	1 pound 4 ounces	1.85
	24 ounces	2 pounds	2.39

DUNLAP Tack Hammer

E Highly polished 5-ounce head. One end has driving face; other end is magnetized to hold tack. Securely wedged hickory handle.

9 PC 3802—Shipping weight 13 ounces. . . . 49c

Wooden Mallet

F For woodworkers, cabinetmakers, stone masons, sheet metal workers, etc. Hard seasoned hickory head is bullet shaped. Size 4 head; 2 1/2 x 5 1/4 inches. 8-inch hardwood handle extends through head. Clear varnished with red painted top.

9 PC 3807—Shipping weight 1 pound 5 ounces. . . . 55c

CRAFTSMAN Rubber Mallets

G For body and fender work on assembly lines—any work which requires a hard blow without marring the surface. Rubber composition head; oilproof and waterproof. Won't flare, chip or become spongy. Head is securely fastened to a sturdy 10-inch hardwood handle.

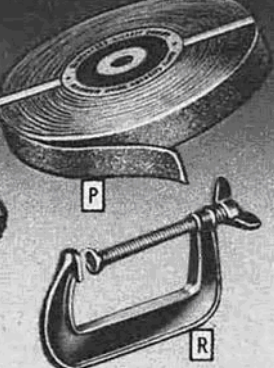
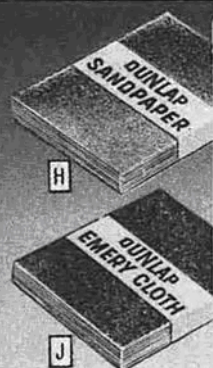
9 PC 4579—Please be sure to state size wanted when ordering.
12-ounce head. Shipping weight 1 pound. . . . 95c
18-ounce head. Shipping weight 1 pound 6 ounces. . . . \$1.09



Comparative Grit Chart for Abrasive Papers

Grade	Approx. Grit	Flint or Sandpaper	Garnet Paper	Emery Cloth	Alum Oxide Cloth
Extra fine	150	2/0	4/0	2/0	3/0
Fine	120	1/0	3/0	1/0	2/0
Medium fine	100	1/2	2/0	0	2/0
Medium	80	1	0	1	0
Medium coarse	60	1 1/2	1/2	1/2	1/2
Coarse	40	2	1 1/2	1 1/2	1 1/2

Use Coarse to Medium Grit for fast removal of material; Fine to Medium-fine Grit for semi-finishing; Extra-fine Grit for high finishes and polishing.



ABRASIVES . . . Steel Wools • Shop Rolls • Clamps

H DUNLAP Sandpaper. Package of 20 sheets in assorted grits. Size of sheets 4 3/4 x 5 1/4 inches.

9 PC 6794—Shpg. wt. 6 oz. . . . 9c

Comes only in package sizes listed below. Same quality as above. Size of sheets 8 3/4 x 10 1/4 inches.

9 PC 6793—State grit and size package.

Grit	Shpg. wt. 24	24 for
00 Extra Fine	1 lb.	5 for 5c 17c
0 Fine	1 lb. 1 oz.	4 for 5c 21c
1/2 Med. Fine	1 lb. 4 oz.	4 for 5c 24c
1 Medium	1 lb. 8 oz.	3 for 5c 27c
1 1/2 Med. Coarse	1 lb. 13 oz.	3 for 5c 29c
2 Coarse	2 lbs. 2 oz.	3 for 5c 33c

J DUNLAP Emery Cloth. Package of 6 sheets; assorted grits. Size of sheets 4 3/4 x 5 1/4 inches.

9 PC 6799—Shpg. wt. 3 oz. . . . 9c

9 PC 6798—Size of sheet 9x11 inches. In 2/0, 1/2 or 1 grit. State grit wanted. Shipping weight 2 oz. . . . Each 5c

K DUNLAP Garnet Paper. 9x11 inches. Outlasts sandpaper; cuts faster.

9 PC 6795—State grit and size package.

Grit	Shpg. wt. 24	1 Sheet 24 Shts.
4/0 Extra fine	1 lb.	5. . . . \$0.98
3/0 Fine	1 lb. 1 oz.	5.98
2/0 Med. fine	1 lb. 4 oz.	5.98
0 Medium	1 lb. 8 oz.	6. . . . 1.10
1/2 Med. coarse	1 lb. 13 oz.	7. . . . 1.29
1 1/2 Coarse	2 lbs. 2 oz.	8. . . . 1.65

L DUNLAP Aluminum Oxide Cloth. 9x11-inch sheets. Fastest cutting, toughest abrasive known; more economical than garnet. Ideal for metals, hardwood, plastics, etc.

9 PC 6789—State grit and size package.

Grit	Shpg. wt. 3	2 for	24 for
3/0 Fine	6 oz.	25c.	\$2.79
2/0 Med. fine	6 oz.	25c.	2.79
0 Medium	6 oz.	25c.	2.89
1/2 Med. Coarse	6 oz.	29c.	2.89

Steel Wool. A great time and labor-saver for carpenters and painters. Extremely useful to the housewife for scouring pots and pans and for smoothing floors, furniture, etc. Furnished in rolls or pads; in four grades: 0—fine; 1—medium fine; 2—medium; and 3—coarse. Please order by catalog number and state grade wanted.

M 9PC6791—Package of 16 pads.

Shpg. wt. 1 lb. 4 oz. . . . 37c

N 9PC6787—1-pound roll.

Shpg. wt. 1 lb. 4 oz. 37c

All tools and accessories listed in this book are available on Easy Payments . . . on orders of \$10 or more. See page 40 for details.

P CRAFTSMAN Shop Rolls. Strong cloth back, aluminum oxide abrasive; the toughest, fastest cutting abrasive known. 50-yard rolls only; you can cut to any length desired. For either wood or metal finishing. Be sure to state grit wanted.

Grit	9 PC 6441—1 in. wide		9PC6442—1½ in. wide	
	Shpg. wt.	50-yd. roll	Shpg. wt.	50-yd. roll
Fine	2 lbs	\$2.79	2 lbs.	\$4.19
Medium	2 lbs	2.89	3 lbs.	4.29
Coarse	3 lbs	3.29	4 lbs.	4.98

R Iron C Clamps. Strong, heavy duty clamps with Acme-threaded screw. Have self-adjusting swivel head. Ideal for use by woodworkers, cabinetmakers, farmers, etc. Give a firm solid grip.

9 PC 6667—Please state size wanted.

Opens to	Shipping weight	Each
3 inches	1 pound 8 ounces	\$0.75
4 inches	2 pounds 2 ounces	.95
5 inches	2 pounds 8 ounces	1.09
6 inches	3 pounds 2 ounces	1.35
8 inches	4 pounds 8 ounces	1.85

CRAFTSMAN FILES ... none finer!

Meet rigid U. S. Navy Specifications

No wonder CRAFTSMAN files have become so popular with professional machinists all over America! We believe there are no finer made! They show remarkable superiority in their longer life and faster cutting action.

Guaranteed to meet rigid U.S. Navy specifications 41F3D. Forged from specially refined file steel, scientifically heat treated and hardened. Each tooth milled with a deep undercut to give it proper rake and clearance for fast, smooth cutting. Every file carefully tested by experts for sharpness, uniform hardness and freedom from defects.

CRAFTSMAN Mill Files

A Medium fine, single cut. Standard pattern. For lathe work, sharpening machine knives, cross-cut and circular saws, lawn mower blades, axes, etc. Tapered in both width and thickness from near center to point. Please be sure to state size wanted when ordering.

Length.....	6 in.	8 in.	10 in.	12 in.	14 in.	16 in.
Shpg. wt.....	3 oz.	7 oz.	14 oz.	1 lb. 4 oz.	1 lb. 10 oz.	2 lbs. 4 oz.
9 PC 6764.....	19c	23c	35c	45c	65c	89c

B As above, but with two round edges. For filing gullets and teeth on crosscut and circular saws. Please be sure to state size wanted.

Length.....	6 inches	8 inches	10 inches	12 inches
Shpg. wt.....	3 oz.	7 oz.	14 oz.	1 lb. 4 oz.
9 PC 6756.....	25c	32c	42c	55c

CRAFTSMAN Square Bastard Files

C Fine, double cut. For filing slots, key seats, etc. Deep milled teeth.

Length State size.....	6 inches	8 inches
Shipping weight.....	4 ounces	10 ounces
9 PC 6761.....	29c	35c

CRAFTSMAN Flat Bastard Files

D Medium coarse, double cut. Ideal for general purpose use in shops, factories, garages, farm work, etc. where metal must be removed rapidly. Tapered towards point. Be sure to state size wanted when ordering.

Length.....	6 in.	8 in.	10 in.	12 in.	14 in.
Shpg. wt.....	4 oz.	10 oz.	1 lb.	1 lb. 8 oz.	2 lb. 2 oz.
9 PC 6758.....	23c	35c	45c	59c	89c

CRAFTSMAN Crosscut Saw Files

E Rounded back; fine; single cut. For filing and deepening saw gullets and teeth on crosscut saws. Please be sure to state size wanted.

Length.....	8 inches	10 inches
Shipping weight.....	10 oz.	14 oz.
9 PC 6772.....	45c	55c

CRAFTSMAN Half Round Bastard Files

F Medium coarse, double cut. For fast and heavy cutting of flat or uneven metal surfaces. Please be sure to state size wanted.

Length.....	6 inches	8 inches	10 inches	12 inches
Shpg. wt.....	4 oz.	6 oz.	12 oz.	1 lb. 4 oz.
9 PC 6768.....	39c	45c	55c	69c

CRAFTSMAN Knife Blade File

G Bastard cut, medium coarse. Sides double cut; edges single cut. For filing keyways, etc. Length 6 inches.

9 PC 6766—Shipping weight 3 ounces.....	Each 42c
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CRAFTSMAN Warding Files

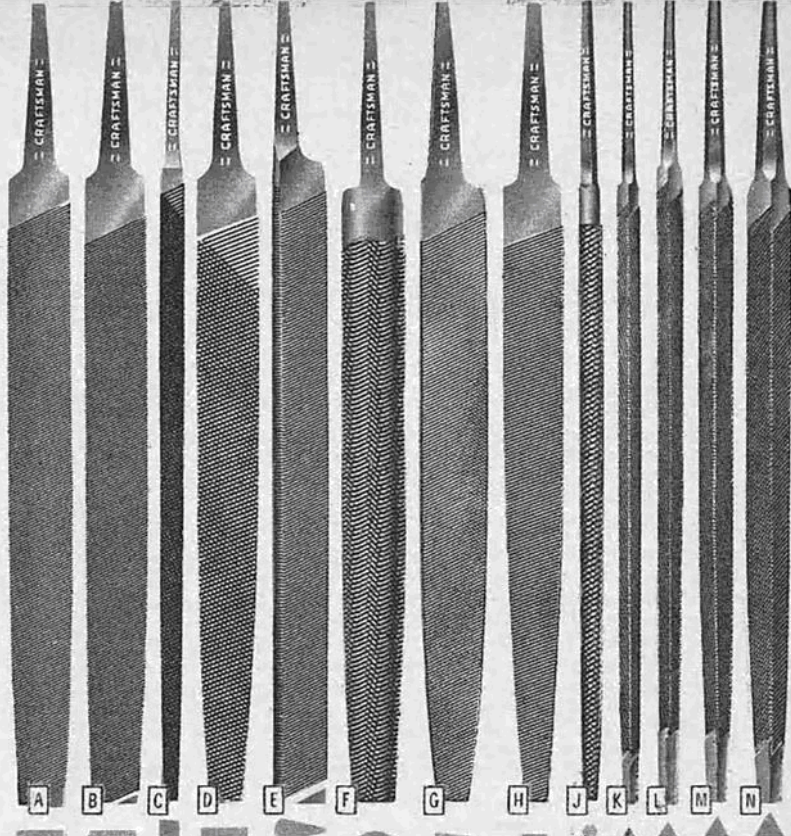
H Bastard cut; medium coarse. Sides double cut; edges single cut. For tool makers, filing locks, keys, etc. Please state size wanted.

Length.....	4 inches	6 inches
Shipping weight.....	3 ounces	4 ounces
9 PC 6765.....	23c	32c

CRAFTSMAN Round Bastard Files

J Medium coarse, single cut spiral teeth. For irregular surfaces or enlarging holes. For wood or metal. Please state size wanted.

Length.....	4 in.	6 in.	8 in.	10 in.	12 in.
Diameter.....	1/2 in.	3/4 in.	1 in.	1 1/4 in.	1 1/2 in.
Shpg. wt.....	1 oz.	3 oz.	8 oz.	12 oz.	1 lb.
9 PC 6760.....	17c	21c	25c	37c	47c



CRAFTSMAN professional quality Taper Saw Files

These files have the same superb professional quality as the other CRAFTSMAN files described above at left! No finer files made! Specially designed for proper filing of gullets and saw teeth of all types of hand saws. Also ideal for sharpening milling cutters, etc. Descriptions below give the type of saw for which each file is designed. (See 9PC6772 at left if you want a file designed for use on circular crosscut saws.) Forged from special refined file steel, scientifically heat treated and hardened. Fine single cut teeth. Have proper rake and clearance. All files taper from near center toward the end.

Double extra slim Taper Files

K Excellent for filing blades of 8, 9, 10, 11 and 12-point hand saws or back saws. Can also be used for filing fine tooth band saws, etc. State size wanted.

Length.....	6 inches	7 inches	8 inches
Shpg. wt.....	3 ounces	4 ounces	5 ounces
9 PC 6749.....	19c	23c	27c

Slim Taper Files

M Especially designed for filing and sharpening the blades of 5 1/2, 6 and 8-point hand saws, as well as blades of medium tooth band saws, etc. Please state size wanted.

Length.....	4 in.	5 in.	6 in.	7 in.
Shpg. wt.....	1 oz.	2 oz.	3 oz.	4 oz.
9 PC 6743.....	13c	15c	19c	23c

Extra slim Taper Files

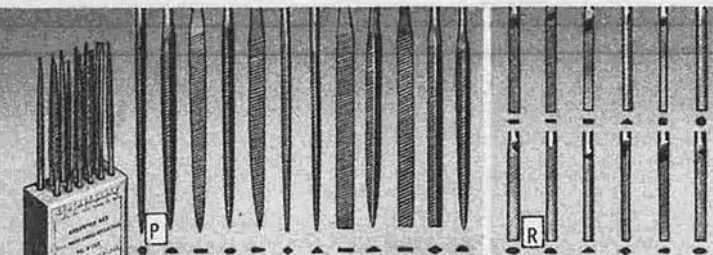
L For filing 8, 9, 10 and 11-point hand saws. Can also be used for filing fine tooth band saws. Please be sure to state size wanted when ordering.

Length.....	4 inches	6 inches	7 inches
Shpg. wt.....	1 ounce	2 ounces	4 ounces
9 PC 6744.....	15c	19c	23c

Regular Taper Files

N Ideal for filing and sharpening blades of coarse tooth buck saws, as well as circular saws. Has many other general filing uses. Please state size wanted when ordering.

Length.....	6 inches	8 inches
Shpg. wt.....	3 ounces	5 ounces
9 PC 6741.....	23c	32c



Die Makers' Files

P CRAFTSMAN. Swiss pattern needlepoint files. For die, tool and watch makers who require fine files for close, fine work. Forged from refined file steel, heat treated and hardened. Teeth are extra sharp and deep biting for fast, clean work. Length of each file is 5 1/4 inches.

Set of 12; includes one each of the following round handle files; round file, half-round file, flat file, oval file, knife file, square file, three-square file, equalling file, barrette file, joint file (cut on 2 round edges only), slitting file, marking file (cut on half round side only). Shipping weight 10 ounces. 9 PC 6779—Set of 12.....\$3.98

Jig Saw File Set

R CRAFTSMAN. Set of 12 Fit all standard makes of jig saws. Eliminate tedious hand filing on metal or wood patterns, dies, scroll work, etc. 3 1/4 inches long with 3/4-inch round shanks. Swiss pattern, size 00, sharp, deep cut teeth. Set includes 3 pillar files, 1 three-square file, 1 square file, 1 round file, 1 crocheting file, 1 quarter-round file, 1 triangular file, 1 diamond file, 1 knife file and 1 round back file. Complete set of 12 in convenient wood box. Shipping weight 12 ounces. 9 PC 6778.....\$6.15

CRAFTSMAN Double end Horse Rasps

S Straight sides. Made especially for blacksmiths, horseshoers, farriers, etc. Refined forged steel; extra large, deep biting, quick cutting teeth. Remain sharp; will not clog.

Length.....	12 in.	14 in.	16 in.	18 in.
Shpg. wt.....	1 lb.	1 lb.	2 lbs.	3 lbs.
Each.....	55c	79c	\$1.09	\$1.39

CRAFTSMAN Half round Rasps

T Tapered sides. For plumbers, cabinet makers, woodworkers, etc. Forged from refined file steel. Extra large, sharp, deep biting teeth, yet will not clog easily. Remain sharp.

Length.....	8 in.	10 in.	12 in.
Shpg. wt.....	10 oz.	14 oz.	1 lb. 4 oz.
Each.....	65c	75c	98c

CRAFTSMAN Shoe Rasps

U Half round. General purpose rasps. One half of each surface rasp-cut; other half file cut. Sides smooth. Used by shoe repairers, wood and metal workers, etc. Forged from especially refined file steel.

Length.....	8 in.	10 in.
Shpg. wt.....	3 oz.	6 oz.
Each.....	45c	59c

CRAFTSMAN Auger Bit File

V For restoring original sharpness to cutting edges of auger bits. One end has top side "safe" or "uncut"; other has "safe sides" with top "file-cut." Prevents damage to surfaces adjacent to those being filed. Forged from refined file steel. Deep biting teeth. Length 7 inches.

9 PC 6739—Shpg. wt. 2 oz.....	29c
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CRAFTSMAN FLEXIBLE SHAFTS... Many tools in one!

\$11.50

CRAFTSMAN 50-inch general purpose Flexible Shaft

- 1 Smooth operating, ball bearing hand piece with 1/2-inch 20-thread spindle extending a full 2 1/2 inches
- 2 Double wire casing encloses helically-wound high carbon steel core, 3/16ths of an inch in diameter
- 3 Motor coupling runs on needle bearings... fits 1/2-inch shaft

Hundreds of uses in the home, garage or repair shop... brings tool to work instead of taking work to tool! Makes grinding, sanding, cleaning, polishing, drilling, and removal of paint, carbon and rust far easier! Smooth and quiet-running, this CRAFTSMAN flexible shaft transmits power from motor to driven tool with minimum power loss.

Helically-wound high carbon steel wire core. Two-layer casing: inner layer of tempered spring steel, outer layer of soft steel. Practically leakproof. Non-rusting aluminum housing. Black, rust-resistant plated steel end fittings. Complete with casing, core, motor coupling, hand piece and simple directions for use.

9 PC 2633—50-inch flexible shaft. Shpg. wt. 5 lbs. \$11.50

Flexible Shaft Extension. Not shown. 38 in. long. Makes above shaft 88 in. long. Same construction but no hand piece or motor coupling.

9 PC 2634—Shipping weight 3 pounds 6 ounces. \$3.85

CRAFTSMAN WheelGuard

Protects hands and eyes. Has hand grip. Designed to fit 9 PC 2633 (above) or any flexible shaft with 1 5/8-inch diameter hand piece. For any 4-inch grinding or wire wheel. Shpg. wt. 2 lbs. 4 oz.

9 PC 2637.....\$3.59

\$30.50
Cash
\$3.50 down

CRAFTSMAN 72-inch heavy duty Flexible Shaft

- 1 Precision ball bearing hand piece with 1/2-inch 20-thread spindle. Knurling on hand piece gives user firm grip
- 2 Abrasion-resistant rubber covered steel casing. Helically-wound high carbon steel core, 3/16ths of an inch in diameter
- 3 Chrome-finish spiral steel outer reinforcement at each end of the shaft protects the rubber and steel casing
- 4 Precision ball bearing motor coupling fits 1/2-inch shaft

Super-strong CRAFTSMAN flexible shaft designed and built for heavy duty use in garages, shops, factories and on industrial jobs. Precision ball bearings in hand piece and motor coupling, which are both bright chromium plated. Black, rust-resistant, plated steel end fittings. Helically-wound 3/16-inch high carbon steel wire core. Outer casing of two layers of steel impregnated with, and covered by, strong, abrasion-resistant heavy rubber jacket that will not scratch surfaces with which it comes in contact! Unusually flexible! Absolutely leakproof! Supports core evenly. Chrome-finish spiral steel outer reinforcement at each end of shaft protects rubber coating at these points of extra wear. Complete with casing, core, motor coupling, hand piece and simple instructions for using.

99 PC 02627—Shipping weight 11 pounds. \$30.50

CRAFTSMAN WheelGuard

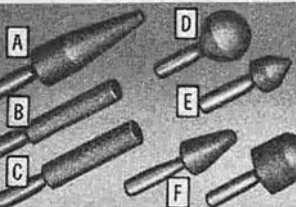
A safety necessity. Has hand grip. Made to fit 99 PC 02627 (listed above) or any flexible shaft with 1 5/8-inch diameter hand piece. For any 4-inch grinding or wire wheel. Shipping weight 2 lbs. 4 oz.

9 PC 2638.....\$3.59

CRAFTSMAN Angle Head

Used with grinding wheels, brushes, sanding and polishing discs. Cast aluminum head. Ball bearings take thrust; needle bearings radial load. 1-to-1 gear ratio. For 99 PC 02627 only! Shpg. wt. 2 lbs. 8 oz.

9 PC 2628.....\$30.95



Mounted Grinding Tools

For use with flexible shafts. Vitrified aluminum oxide points, accurately mounted on 1/4-inch steel shafts. Sizes given are stone sizes. Shipping wt. each 3 oz.

Catalog no.	Diam.	Length	Each
A 9 PC 6461	3/4 in.	2 1/2 in.	65c
B 9 PC 6463	3/8 in.	2 in.	55c
C 9 PC 6462	1/2 in.	2 in.	55c
D 9 PC 6459	1 in.	1 in.	55c
E 9 PC 6458	1 1/8 in.	7/8 in.	55c
F 9 PC 6457	3/4 in.	1 1/8 in.	55c
G 9 PC 6460	1 in.	1 in.	55c

CRAFTSMAN Disc Cement

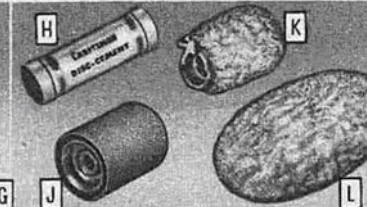
[H] For holding sanding discs to metal sanding plates. Non-drying. 4 3/4-ounce stick. 9 PC 2219—Shpg. wt. 6 oz. 29c

Sanding Disc Set. Not shown. Six assorted: two each of fine, medium and coarse grit. Aluminum oxide abrasive on paper. For sanding wood or metal. Shipping weight each 8 ounces.

9 PC 2217—Diam. 8 in. 6 for 53c

9 PC 2155—Diam. 9 in. 6 for 63c

9 PC 2216—Garnet on paper. For wood only. Diam. 8 in. 6 for 42c



Sanding Drums

[J] Complete with adapter and medium grit sleeve. Diameter, 2 1/4 inches; 3 inches long. Shipping weight 12 oz. 9 PC 2524—Fits 1/2-inch by 20-thread shaft.....\$1.35

9 PC 2520—Fits 1/2-inch by 24-thread, and 5/16-inch by 24-thread shafts. \$1.35

Sanding Sleeve

For use with sanding drums listed above. Your choice of fine, medium or coarse grit. Please state grit wanted.

9 PC 2522—Shpg. wt. 2 oz. 12c

Polishing Drum

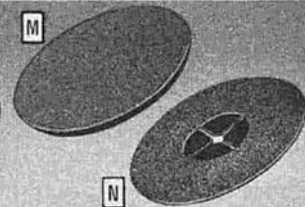
[K] Made of lamb's wool. 1-inch wool pile. Diameter 2 1/4 in.; 3 in. long. Slips over sanding drum. Ideal for polishing curved and irregular surfaces. 9 PC 2533—Shpg. wt. 3 oz. 72c

Polishing Bonnet

[L] Made of lamb's wool. To fit over sanding discs. Brings wax surfaces, etc., to a high polish. Shipping weight each 8 ounces. Three sizes: 9 PC 2527—Diameter 7 inches; for 6-inch disc, 1-in. wool pile.....\$1.10

9 PC 2528—Diameter 8 inches; for 7-inch disc, 1 1/4-inch wool pile.....\$1.28

9 PC 2539—Diameter 9 inches; for 8-inch disc, 1 1/4-inch wool pile.....\$1.62



Flexible Sanding Discs

[M] Steel backing; with med. grit abrasive. 5 1/2-inch diameter. Shpg. wt. 10 oz. 9 PC 2547—For 1/2-in. x 20-thread.....\$1.55

9 PC 2540—For 5/16-in. x 24-thread.....\$1.55

7-inch diameter. Shpg. wt. 14 oz.

9 PC 2548—For 1/2-in. x 20-thread.....\$2.29

9 PC 2544—For 1/2-in. x 24-thread.....\$2.29

Replacement Abrasives. For above discs. Medium grit abrasive coating.

9 PC 2541—5 1/2-in. Shpg. wt. 2 oz. Pair.....35c

9 PC 2545—7-in. Shpg. wt. 3 oz. Pair.....48c

Resin-bonded Abrasive Discs

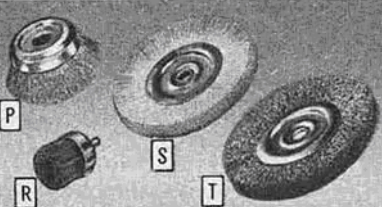
[N] Outlast glue-bonded discs from 2 to 2 1/2 times! Won't "soften up" under high speeds. Fine for curved surfaces. Made of aluminum oxide grit, firmly bonded to pliable fiber back. 7-inch discs come in No. 24, 36, 50 or 80-grit; 9 1/2-inch discs in No. 24, 36 or 50-grit. Please state grit wanted.

7-in. discs	Center hole	Shpg. wt.	Each
9 PC 2220	1/4 in.	5 oz.	31c
9 PC 2223	5/8 in.	5 oz.	31c
9 1/2-in. discs	Center hole	Shpg. wt.	Each
9 PC 2221	1/4 in.	6 oz.	41c
9 PC 2224	5/8 in.	6 oz.	41c

Fiber Backing Pads. To back up abrasive discs for more rigidity. 1/2 or 3/4-inch center hole. Please state center hole size wanted.

9 PC 2225—7-inch. Shpg. wt. 4 oz. 57c

9 PC 2226—9 1/2-inch. Shpg. wt. 5 oz. 70c



Brushes and Scratch Wheels

[P] Wire Cup Brush. For removing rust, etc. 1 1/2-in. arbor hole; 2 3/4-in. diameter. 9 PC 6485—Shpg. wt. 4 oz. 67c

[R] Carbon Removing Brush. For auto mechanics. 3/4-in. shank; 1-in. diameter. 9 PC 6484—Shpg. wt. 4 oz. 67c

[S] Tampico Brush. Tampico fiber. Ideal for cleaning, polishing, etc. 1/2-inch arbor hole. Diameter 6 inches. 9 PC 6486—Shpg. wt. 8 oz. 63c

[T] Wire Scratch Wheels. For removing rust, paint, etc. 4-inch has 1/2-inch arbor hole; 6 and 8-inch have 3/4 or 1-inch arbor holes. State diameter and hole size wanted. 9 PC 6480—Coarse

Diam.	Width	Shpg. wt.	Each
4 in.	7/16 in.	4 oz.	44c
6 in.	9/16 in.	8 oz.	49c
8 in.	1 1/16 in.	12 oz.	62c

9 PC 6482—Fine

Diam.	Width	Shpg. wt.	Each
4 in.	7/16 in.	4 oz.	47c
6 in.	9/16 in.	8 oz.	62c
8 in.	1 1/16 in.	12 oz.	93c

9 PC 6483—Heavy Duty

Diam.	Width	Shpg. wt.	Each
4 in.	1 in.	14 oz.	\$1.55
6 in.	1 1/8 in.	1 lb. 12 oz.	2.03
8 in.	1 3/8 in.	2 lbs. 12 oz.	2.45

Buy on Sears Easy Terms

Flexible shafts and accessories are all available on Sears Easy Payment plan. See page 40 for details.

CRAFTSMAN BLOW TORCH...

Five times factory tested
Exceeds U. S. Navy specifications

- 1 Large, solid bronze windproof burner with 7/8-in. opening generates 2200° flame. Replaceable needle valve is self cleaning... does not enlarge orifice.
- 2 Insulated valve wheel and comfortable plastic pistol-grip handle stay cool in use.
- 3 Self-lubricating, positive acting pump has leakproof one-piece mounting; locked blowproof construction.
- 4 Heavy duty, seamless, brass plated steel tank; lead-coated, corrugated steel bottom. Super-safe locked joints... 4 times as strong as ordinary soldered joints.

A So strong it exceeds U.S. Navy Specifications No. 41T4f... this gasoline blow torch has CRAFTSMAN professional quality built into every part! Designed for heavy duty use, to meet the exacting demands of mechanics, plumbers, electricians, etc. Ideal for soldering, melting lead, removing paint, thawing pipe, etc. Automatic check valve on pump. Full length, solid bronze drip cup. Capacity 1 quart.

9 PC 5544—Shipping weight 4 pounds 6 ounces... \$5.85

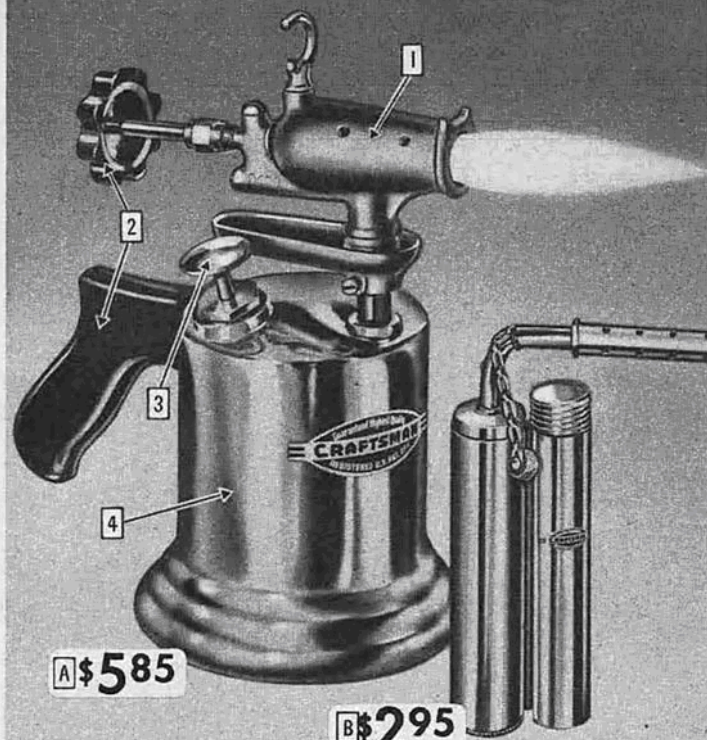
CRAFTSMAN self-generating Alcohol Blow Torch

B Handy "palm size"... only 6 in. long... for those dozens of small soldering, brazing, sweating jobs that can be done a lot better with a small torch. Operates in any position... even upside down... indoors or out. Rugged heavy duty construction. Bunsen burner gives flame of 2200° Fahrenheit. Made entirely of brass, with polished nickel plated finish. Priming barrel acts as an adjustable extended handle, and as an auxiliary fuel container. Priming tube openings are equipped with special seated ends and caps. Burns two hours on one filling. Use denatured or commercial alcohol. With cleaning wire and instructions.

9 PC 5420—Shipping weight 1 pound... \$2.95

Low priced Alcohol Blow Torch. (Not illustrated.) Similar to above, but with less capacity. Burns one-half hour on one filling. 6 inches long.

9 PC 5428—Shipping weight 9 ounces... \$2.19



A \$5.85

B \$2.95

CRAFTSMAN OILERS... leakproof

Made of top grade steel, with welded construction throughout; copper plated inside and out. Strong, rigid spouts, metal reinforced to prevent breaking. Leather washers assure oil-tight, leakproof connections; prevent oil oozing out over sides when full. One-piece steel domes. Trigger oilers have plunger handle similar to gun trigger. Pump oilers are force feed type; will operate at any angle.

C Sewing Machine Oiler. For home or office. 4-in. bent spout. Cap., 1 1/2 oz.
9 PC 5575—Shipping weight 3 oz... 17c

D Spring Bottom Oiler. For washing machines, refrigerators, etc. Capacity 1/2 pint; 4-inch straight spout.
9 PC 5586—Shipping weight 6 oz... 39c

E 7 1/2-in. Flexible Spout Oiler. For hard-to-get-at-places. Cap., 1/2 pint.
9 PC 5588—Shipping weight 8 oz... 75c

F Spring Bottom Oiler. (Not illus.) Capacity 1/2 pint; 6-inch bent spout.
9 PC 6464—Shipping weight 8 oz... 55c

G Spring Bottom Oiler. (Not illus.) Capacity 1 pint; 9-inch bent spout.
9 PC 5587—Shipping weight 10 oz... 65c

H Mowing Machine Oiler. For tractors, harvesters, etc. Capacity 10 ounces; 1-inch straight spout.
9 PC 5578—Shipping weight 8 oz... 23c

I Trigger Oiler. Capacity 4 ounces; 5 1/2-inch bent spout.
9 PC 5582—Shipping weight 10 oz... \$1.29

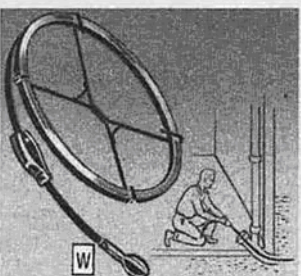
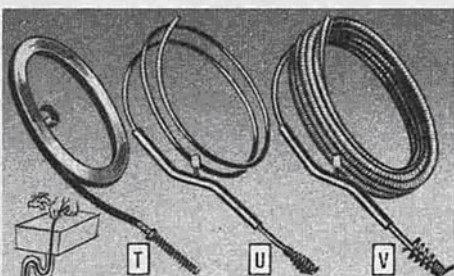
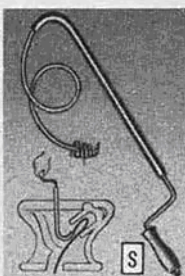
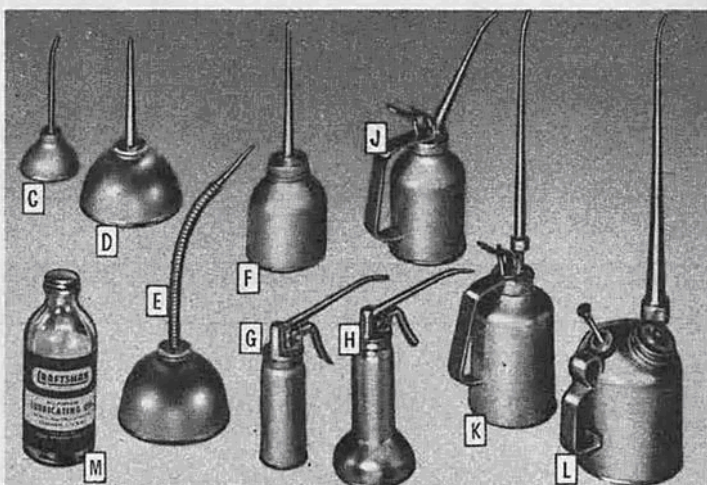
J Trigger Oiler. Capacity 9 ounces; 5 1/2-inch bent spout.
9 PC 5583—Shipping weight 14 oz... \$1.69

K Pump Oiler. Capacity 12 ounces; 5-inch bent spout.
9 PC 5579—Shpg. wt. 1 lb. 2 oz... \$1.25

L Pump Oiler. Capacity 1 pint; 9-inch bent spout.
9 PC 5580—Shpg. wt. 1 lb. 6 oz... \$1.79

M Pump Oiler. Capacity 1 quart; 15-inch bent spout.
9 PC 5581—Shpg. wt. 1 lb. 10 oz... \$2.65

N CRAFTSMAN Lubricating Oil. For electric motor and general shop use. Will not gum or become sticky. State size.
9 PC 6547—1/2 pint. Shpg. wt. 8 oz... 19c
1 pint. Shpg. wt. 1 lb... 29c



DRAIN CLEANING TOOLS... Force Cups... Augers... Rods

Blast Furnace

N Sparkle Toilet Bowl Cleaner. Cleans quickly; keeps bowls sanitary without harm to porcelain. Pleasing pine odor. Not available. Shipping weight 1 lb. 5 oz.
99 PC 5516—16-oz. can... 23c

P DUNLAP Drain Cleaner. Quick-acting... economical... sanitary. Opens drain and toilet stoppages. Whitens bowls; won't harm porcelain. No offensive odor. Not available. Shpg. wt. 1 lb. 5 oz.
99 PC 5518—16-oz. can... 21c

R Rubber Force Cup. For clogged sinks, etc. Strong, 24-in. smooth wood handle; screws into 5 1/2-in. rubber suction cup. Shipping weight 2 lbs. 6 oz.
9 PC 5526—Each... 29c

S Closet Auger. For removing obstructions from water closets, drains and traps. Flexible coil of high grade spring steel; slides in steel tube; has steel crank and smooth wood handle. Removable cone-shaped wire corkscrew at end. Over-all length 5 1/2 feet.
99 PC 5534—Shpg. wt. 4 lbs. \$1.25

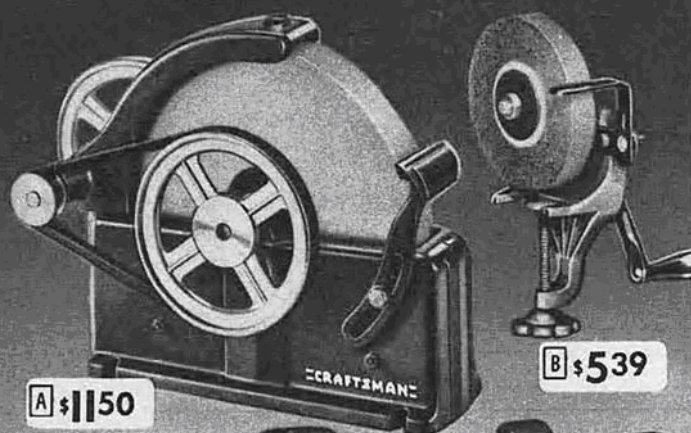
T Hook-end Cleanout Auger. For removing stoppages in traps, drains, etc. Thin, flat, strong clock spring steel; 25 ft. long; 1/4-in. wide. End plows through traps and around bends easily; will not kink. Unrolls or rewinds easily on steel holder. Shpg. wt. 1 lb. 4 oz.
9 PC 5532... \$1.25

U Hook-end Cleanout Auger. For drain-traps, obstructions in closets, etc. Steel brace with strong, smooth wood handle twists wire hook on end to loosen stoppages. Rust-resisting coil spring of spring steel; 6 ft. long, 1/4-in. wide.
9 PC 5530—Shpg. wt. 2 lbs. 2 oz... 85c

V Drain and Trap Auger. Of high quality 3/8-in. coiled high tension spring steel; rust-resisting. Strong, sharp hook goes through stoppages... cleans drains, traps easily. Flexible for sewers with short bends. Auger type handle grips spring at any point.
9 PC 5536—State length wanted.
15-foot. Shpg. wt. 7 lbs... \$2.95
25-foot. Shpg. wt. 10 lbs... \$4.15

W Flat Sewer Rods. Plumber's choice. High quality spring steel, 3/4-in. wide, 1/4-in. thick. Will straighten out and lie flat. Revolving spear point digs through stoppages easily. Self-adjusting handle grips rod at any desired point. Handy steel frame folds when not in use; keeps rod compact for storage or for easy carrying.
99 PC 05539—50 ft. long. Shpg. wt. 10 lbs... \$6.85
99 PC 05540—100 ft. long. Shpg. wt. 18 lbs... \$10.50

X DUNLAP. Gasoline type. Latest design and principle of combustion give concentrated, controlled heat... from powerful blast to low flame. Can be used as a blow torch. Pre-heats quickly. Galvanized steel tank, lead-coated on the inside. Self-lubricating, heavy duty all-brass pump. Removable top. 1-gallon capacity. Shpg. wt. 11 lbs.
99 PC 05432... \$10.85



CRAFTSMAN GRINDSTONE

**Revolves in bath of water . . .
Won't draw temper from tools**

A Extra heavy duty! A power-driven grindstone specially designed to stand up under hard industrial use . . . that's why it does such a superb job in the shop, garage, home, or on the farm. Built-in jack shaft properly reduces speed of stone. Highest quality natural Ohio grindstone, 10 inches in diameter, with 1½-inch face. Heavy cast iron frame. Durable cast iron bearings. Adjustable 3-inch tool rest. Splash guard over stone. Convenient drain plug in base. Rust-resisting gray finish. With 6-inch drive pulley. Use 1½-inch motor pulley on 1750 R.P.M. motor. Motor, motor pulley and driving V-belt are not included.
99 PC 06620—Shipping weight 34 pounds. \$11.50

CRAFTSMAN streamlined all-purpose Hand Grinder

B Heavy duty. Full-width, perfect meshing spur gears with eleven-to-one ratio. Dust-proof, leak-proof gear case. Long, protected bearing surfaces. Spring covered oil cups. Tool rest adjustable horizontally and vertically; left or right hand. With 6x1-inch vitrified aluminum oxide grinding wheel. Gray enamel finish.
99 PC 06626—Shipping weight 11 pounds. \$5.39

CRAFTSMAN 6-inch Grinder

C Heavy duty! Wide clearance between wheel centers; plenty of high clearance for larger jobs. 9½-inch spindle is ¾ inch in diameter, turned down to ½ inch at ends; 20-thread. Fits all standard grinding wheels and accessories. Extra long bronze oilite bearings; oil well around each. Adjustable wheel guards and tool rests. Shielded 2-step V-drive pulley for ¾ or ½-inch V-belt. Can be driven from below or behind. Spring cap oil cups. Gray enamel finish. With two 6x3½-in. Craftsman fully vitrified grinding wheels: 1 fine and 1 medium grit.
99 PC 06614—Shpg. wt. 20 lbs. \$8.50

CRAFTSMAN Polishing Heads

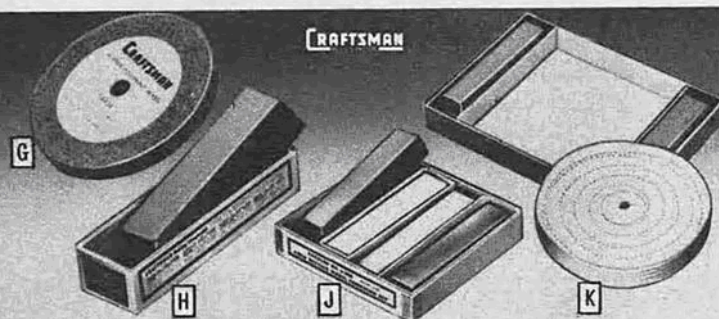
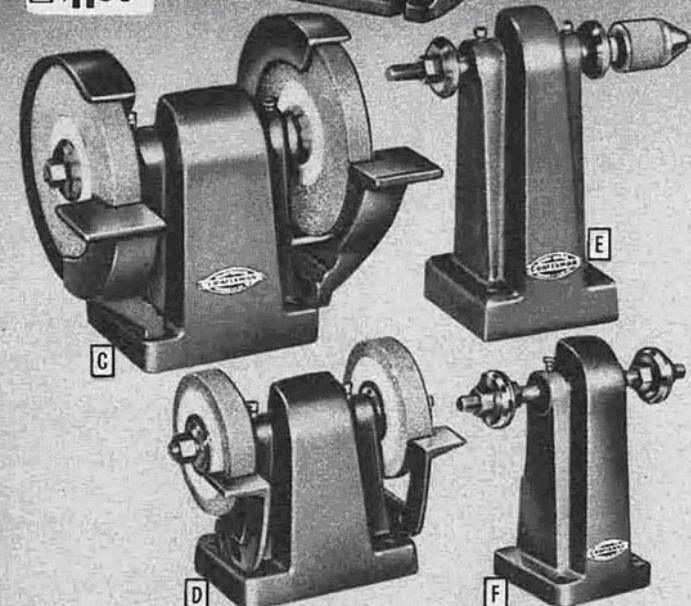
One of the handiest all-purpose tools for shop use . . . for sharpening tools, removing paint or rust, grinding, polishing, drilling . . . with proper accessories this head will handle them all!

E Heavy duty. Large, heavy cast iron frame; 9½x3½-inch steel spindle turned down to ½-in. on ends; 20-thread. Takes all standard accessories. Precision-built 3-jaw screw-on type chuck takes drills up to ¾ inch. Can be driven from below or behind. Carefully machine steel collars. 2-inch V-type pulley for ¾ or ½-inch V-belt. Long-life oilite bearings with oil well around each bearing; spring cap oil cups. Height 9½ in. Gray enamel finish.
9 PC 6647—Shpg. wt. 9 lbs. 4 oz. \$5.40

4-inch Grinder

D Low priced. Cast iron frame. Enclosed drive pulley. 8x3½-in. steel spindle, turned down to ½-in. at ends; 20-thread. Fits standard accessories. 2-in. diameter V-type pulley for ¾ or ½-in. V-belt. Spring cap oil cups. Adjustable tool rests. Gray enamel. With two 4x3½-in. grinding wheels: 1 fine and 1 medium grit.
9 PC 6628—Shpg. wt. 8 lbs. \$5.10

F Smaller, lighter than above; for general use. Cast iron frame. Spindle ends ½x20-thread. Oilite bronze bearings; oil well around each bearing. Can be driven from below or behind. Steel spindle collars. 2-inch V-type pulley for ¾ or ½-inch V-belt. Ht. 7½ in. Gray enamel finish.
9 PC 6627—Shpg. wt. 5 lbs. 14 oz. \$2.65



CRAFTSMAN Polishing and Buffing Equipment

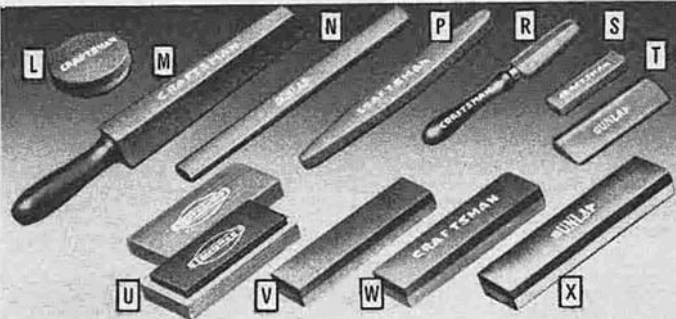
G CRAFTSMAN Rubber Polishing Wheels. Made of rubber with the abrasive ingredient distributed through it! Amazingly efficient for polishing and finishing all metals and plastics. Easy to shape for getting into difficult spots. Ideal for rust removal, die work, deburring, putting a super-keen edge on knives, etc. ½-inch thick; ½-inch bore. Choice of fine, medium or coarse grit. State grit wanted. Maximum speed recommended: 4-inch, 3800 R.P.M.; 6-inch, 2500 R.P.M.
9 PC 2928—4-inch diameter. Shipping weight 9 ounces. \$1.03
9 PC 2929—6-inch diameter. Shipping weight 1 lb. 8 oz. 1.85

H CRAFTSMAN Buffing Compounds. Size of each bar, 7½x2½x1½ inches. Emery (black). To remove rust from tools, golf clubs, iron, etc.
9 PC 2871—Shipping weight 1 pound 4 ounces. Per bar 45c
9 PC 2873—Shipping weight 1 pound 4 ounces. Per bar 45c
9 PC 2874—Shipping weight 2 pounds. Per bar 65c
9 PC 2875—Shipping weight 2 pounds. Per bar 50c

J CRAFTSMAN Buffing Compound Set. Includes one bar each of following compounds: Emery (black), Tripoli (brown), Red Rouge, and White Rouge. Each bar, 5½x1½x1 inch. Weight each bar, 5 oz.
9 PC 2876—Shipping weight, set, 2 pounds. Set of 4 bars 65c

K CRAFTSMAN Buffing Compound Bars. Sold individually. Shpg. wt. each, 8 oz.
9 PC 2859—Emery (black) only. Per bar 21c
9 PC 2861—Tripoli (brown) only. Per bar 21c
9 PC 2862—Red Rouge only. Per bar 21c
9 PC 2860—White Rouge only. Per bar 21c

L CRAFTSMAN Buffing Set. For ½-in. shaft ends. Includes: 6-in. double-thickness sewed muslin buffing wheel; 6-oz. bar red rouge buffing compound; 5-oz. bar Tripoli (brown) buffing compound.
9 PC 2864—Shipping weight 1 pound 1 ounce. Set \$1.00



CRAFTSMAN and DUNLAP Abrasive Stones to keep tools sharp

L CRAFTSMAN Axe Stone. Vitrified silicon carbide. One side coarse grit; other side fine grit. Diameter 3 inches; ¾ inch thick. For easier, better work . . . keep your axes and hatchets sharp.
9 PC 6450—Shpg. wt. 13 oz. 65c

M CRAFTSMAN Vitrified File. For sharpening mower section knives, garden tools, etc. With smooth handle. Length 14 inches.
9 PC 6452—Shpg. wt. 1 lb. 14 oz. \$1.09

N DUNLAP Oval Scythe Stone. Vitrified aluminum oxide abrasive. Cuts fast and clean; wears evenly. Size 11x1½x¾ inch.
9 PC 6445—Shpg. wt. 1 lb. 2 oz. 19c

P CRAFTSMAN Tapered Flat Stone. Vitrified silicon carbide. For general purpose sharpening . . . household knives, butchering equipment, etc. An exceptionally handy stone for use around home or shop. Size 9½x1½x½ inch.
9 PC 6446—Shipping weight 14 oz. 35c

R CRAFTSMAN Knife Sharpener. Vitrified silicon carbide. Fine grit. Length including handle 7 inches. Puts a quick, keen edge on knives and other cutting tools.
9 PC 6430—Shipping weight 5 oz. 45c

S CRAFTSMAN Pocket Hone. Vitrified silicon carbide. Medium fine grit on both sides. Handy pocket size; for carrying on the job. 3x½x¾ inch thick.
9 PC 6432—Shipping weight 2 oz. 21c

T DUNLAP Slip Stone. Medium fine. Round edge. For gouges and other round shaped tools that are difficult to sharpen with other type stones. Size 4x1½ inch; taper from ½ to ¼ inch.
9 PC 6454—Shipping weight 12 oz. 65c

U CRAFTSMAN Combination Stone. With wood case that opens on either side for fine or coarse grit. Case protects stone; and makes it easier to hold when sharpening. Vitrified silicon carbide. 5x2x¾ in. You can't buy a better combination sharpening stone anywhere.
9 PC 6437—Shipping weight 1 pound. \$1.59

V Combination Sharpening Stone. Aluminum oxide oilstone. Fine grit one side; coarse grit other side. Size 7x2x¾ inch.
9 PC 6435—Shpg. wt. 1 lb. 4 oz. 35c

W CRAFTSMAN Combination Sharpening Stone. Vitrified silicon carbide. Fine grit one side; coarse grit other side.
9 PC 6440—Please state size wanted. Size 5x2x¾ inch. Shpg. wt. 12 oz. 98c
Size 6x2x1 inch. Shpg. wt. 1 lb. \$1.49
Size 7x2x1 inch. Shpg. wt. 1 lb. 8 oz. 1.65

X DUNLAP Combination Stone. Vitrified aluminum oxide. Fine grit on one side; medium grit on the other side.
9 PC 6434—Size 6x2x¾ inch. Shipping weight 3 ounces. 75c
9 PC 6438—Size 8x2x¾ inch. Shipping weight 1 pound 12 ounces. \$1.25

CRAFTSMAN GRINDING WHEELS

Industrial quality . . . Bonded and vitrified in electrically controlled furnace over 150 hours

CRAFTSMAN grinding wheels cut cool, fast and free! They are precision made . . . for general shop grinding . . . for hand or power use. Made of fast-cutting, long-wearing aluminum oxide abrasive, selected for uniformity of size and ability to stand up under continuous hard use. Tough, sharp, solid crystalline structure. Each wheel is scientifically bonded and vitrified in an electrically-controlled furnace for over

150 hours. Each wheel is dressed square, sides and face, then balanced for true-running. You will like the way CRAFTSMAN wheels "take hold" of your grinding problems . . . the speed with which they remove metal; their uniform, slow-wearing qualities; their perfect balance. We don't believe that there's a better general purpose grinding wheel made!

Important Safety Information for grinding wheel users

Play safe! Grinding operations are not dangerous if wheel is properly mounted and proper safety precautions are taken. We suggest the following (1) Use concave flanges equal to or larger than diameters recommended below. (2) Enclose as

much of grinding wheel as possible, using a guard. (3) Place an unbreakable shatter-proof glass shield over remaining portion. (4) Never run at a higher rate of speed (R.P.M.) than specified below. (5) Always wear safety goggles.

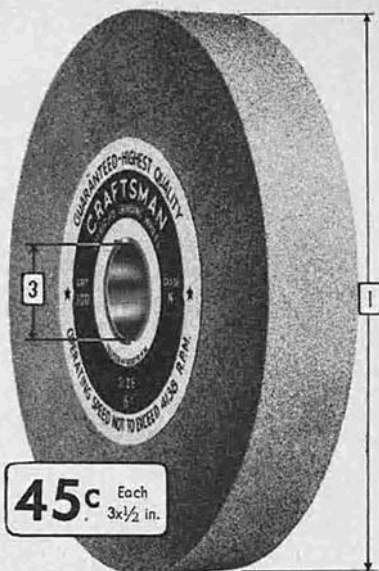
Diameter, wheel	3-inch	4-inch	5-inch	6-inch	7-inch	8-inch	10-inch	12-inch	14-inch
Diameter, flange	1 1/4-inch	1 3/4-inch	1 3/4-inch	2-inch	2 1/2-inch	3-inch	3 1/2-inch	4-inch	4 1/2-inch
R. P. M.	8276	6207	4966	4138	3547	3103	2483	2069	1773

Diameter and thickness, inches	Bore, inches	Shpg. wt. lbs.	99PC8415 Medium coarse	99PC8411 Medium fine	99PC8412 Fine
3x1/2	1	1		45c	45c
3x3/4	1	1		49c	49c
4x1	1	1		65c	65c
4x1 1/4	1	2		79c	79c
4x1 1/2	1	2		89c	89c
5x1	1	2		95c	95c
5x1 1/4	1	3		\$1.09	\$1.09
5x1 1/2	1	3		1.25	1.25
6x1	1	1		98c	
6x1 1/4	1	2		\$1.10	
6x1 1/2	1	3	\$1.15	1.15	\$1.15
6x1 3/4	1	3	1.29	1.29	1.29
6x1 1/2	1	4	1.49	1.49	1.49
6x1 3/4	1	4	1.79	1.79	1.79
7x1	1	3	1.39	1.39	1.39
7x1 1/4	1	4	1.65	1.65	1.65
7x1 1/2	1	5	1.85	1.85	1.85
7x1 3/4	1	6	2.20	2.20	2.20
8x1	1	5	1.89	1.89	1.89
8x1 1/4	1	6	2.30	2.30	2.30
8x1 1/2	1	7	2.75	2.75	2.75
8x1 3/4	1	9	3.19	3.19	3.19

Diameter and thickness, inches	Bore, inches	Shpg. wt. lbs.	99PC06413 Extra coarse	99PC6414 Coarse	99PC06416 Medium	99PC6411 Medium fine	99PC6412 Fine
10x1 1/2	1 1/4	5			\$2.60		
10x1 3/4	1 1/4	6			2.95		
10x2	1 1/4	8			3.10		
10x1 1/4	1 1/4	9		\$3.35		\$3.35	\$3.35
10x1 1/2	1 1/4	10		3.98		3.98	3.98
10x1 3/4	1 1/4	12		4.69		4.69	4.69
10x2	1 1/4	17		5.95		5.95	5.95
12x1 1/4	1 1/4	12			\$3.95		
12x1 1/2	1 1/4	15	\$4.60		4.60		
12x1 3/4	1 1/4	17	5.45		5.45		
12x1 1/2	1 1/4	18	6.15		6.15		
12x2	1 1/4	23	7.95		7.95		
14x1 1/2	1 1/4	23	8.65		8.60		
14x2	1 1/4	30	10.25		10.95		

*We furnish insert bushings to fit shaft diameters 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8 inch. State bore size. See "How to Order Grinding Wheels" at right.

Select the correct grit for your job. FINE, for knives, keen-edged tools, finish grinding and polishing. MEDIUM FINE, for chisels, axes, woodcutting tools, or preparing surfaces for finishing. MEDIUM or MEDIUM COARSE, for machine shop use, fast stock removal. COARSE or EXTRA COARSE, for plow shares, heavy stock removal.

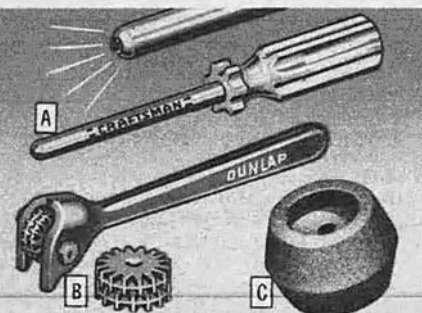


HOW TO ORDER GRINDING WHEELS

Please be very careful in ordering grinding wheels. Before we can send the correct grinding wheel, we must have catalog number and . . .

- 1 Diameter of wheel wanted.
- 2 Thickness or width of wheel.
- 3 Diameter of shaft wanted.

All grinding wheels up to and including 8 inches in diameter have 1-inch arbor holes. Bushings can be furnished to fit shafts, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8 inch. In addition, 10 to 14-inch grinding wheels at left above, can also be furnished to fit 1 1/4 and 1 3/4-inch shafts.



CRAFTSMAN Diamond Wheel Dresser

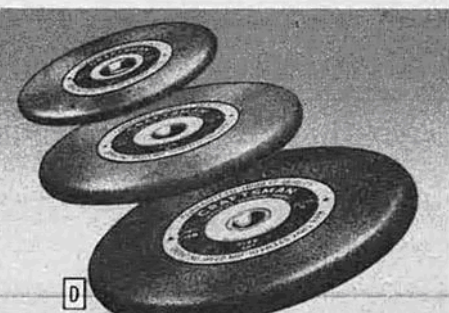
A Professional quality. Tipped with 1/2-carat industrial diamond. This dresser will outwear 10 regular steel cutter-type grinding wheel dressers. Designed for free-hand use. Strong, transparent amber-color plastic handle. 3/4-inch diameter polished steel shank. Length overall 8 inches. Accurately and durably made.
9 PC 6497—Shipping weight 8 ounces. \$3.25

DUNLAP Grinding Wheel Dresser

B Huntington hooded pattern. For truing, shaping and removing glaze. Hood over cutters helps protect operator from flying particles. With 2 sets of hardened, milled steel cutters.
9 PC 6492—Shipping weight 1 lb. 14 oz. 98c
9 PC 6495—Set of 4 extra cutters for above. Shipping weight 2 ounces. 9c

Mower Sickle Grinding Wheel

C For faster, easier, better cutting be sure to keep the section knives of your hay mower good and sharp. This high grade sickle wheel is made of the finest fast-cutting and long-wearing aluminum oxide abrasive; scientifically bonded and vitrified in an electrically-controlled furnace for over 150 hours. Tough, sharp uniform crystalline structure assures fast, cool, even grinding. Precision made; perfectly balanced to run true. 5 1/2 x 3 1/4 inches. 3/4-inch center hole.
9 PC 6419—Shipping weight 5 lbs. 4 oz. \$2.35

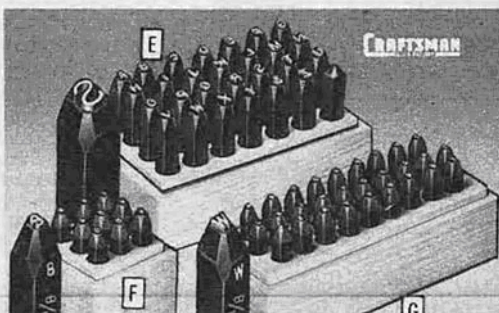


CRAFTSMAN Saw Gummer Wheels

D Sharp saws cut faster. Long-wearing, fast-cutting wheels; perfect for grinding out the gullets of circular saws. Face of wheels may be dressed for any grinding or cutting job you desire. Made from finest aluminum oxide abrasives; selected for uniformity of size and ability to stand up under hard use. Tough, sharp, solid crystalline structure. Scientifically bonded and vitrified in an electrically-controlled furnace for over 150 hours. Perfectly balanced to run true. Dressed on both sides and face. All wheels have 1-in. diameter center holes. Bushings are furnished to fit shafts less than 1-inch in diameter. 10 and 12-inch diameter wheels can also be furnished for 1 1/4 and 1 3/4-inch diameter shafts.
9 PC 6408—Medium grain. Round face. In ordering, be sure to state (1) diameter of wheel, (2) thickness or width, and (3) diameter of your shaft.

Thickness	6-inch diameter		8-inch diameter	
	Shpg. wt.	Each	Shpg. wt.	Each
1/4-inch	2 pounds	89c	3 pounds	\$1.19
3/8-inch	2 pounds	98c	4 pounds	1.45
1/2-inch	2 pounds	\$1.10	4 pounds	1.55

Thickness	10-inch diameter		12-inch diameter	
	Shpg. wt.	Each	Shpg. wt.	Each
1/4-inch	4 pounds	\$1.75	5 pounds	\$2.25
3/8-inch	5 pounds	1.98	6 pounds	2.75
1/2-inch	5 pounds	2.20	8 pounds	2.95
3/4-inch	7 pounds	2.65	10 pounds	3.49
1-inch	7 pounds	2.75	10 pounds	3.75



Steel Letter and Figure Stamps

E It pays to identify your tools, luggage, and other personal property. Each letter and figure has hardened steel face; sharp cut to give clear, durable impressions. For marking wood, metal, leather, etc. State size wanted.
9 PC 3792—Complete set of alphabet, period and "8." Size. 1/8 inch 3/16 inch 1/4 inch Shipping weight 1 lb. 2 oz. 1 lb. 8 oz. 2 lbs. 6 oz. Per set \$2.79 \$3.79 \$4.79

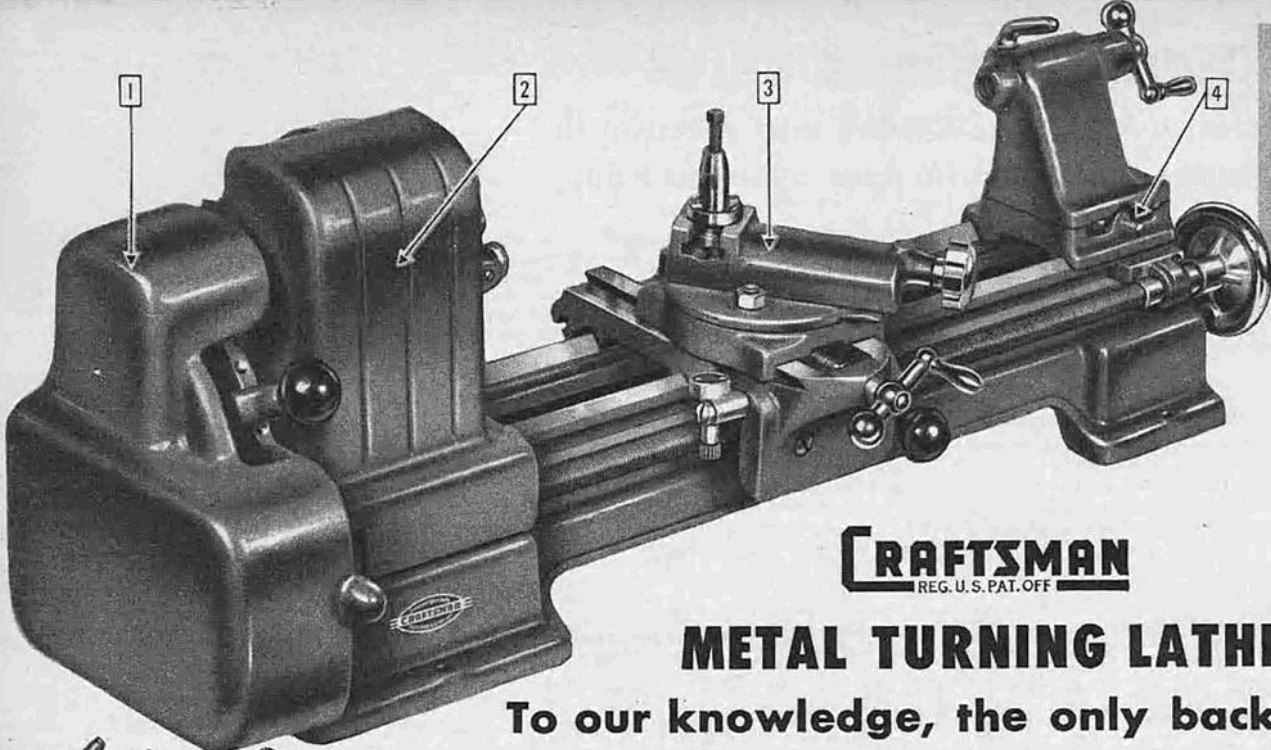
9 PC 3791—Set of figures 0 to 9 (6 inverts for 9). Size. 1/8 inch 3/16 inch 1/4 inch Shipping weight 8 oz. 10 oz. 14 oz. Per set 98c \$1.29 \$1.69

CRAFTSMAN hand-cut Steel Letters and Figures

You can't buy better hand-cut steel letters and figures! They are made from tough, heat treated, hardened tool steel; clearly formed; sharply cut. And they will stamp hardened steel! Stamp your tools. It immediately identifies them; helps prevent loss or theft.

F 9 PC 3784—Set of figures 0 to 9 (6 inverts for 9). Please be sure to state size wanted when ordering. Size. 1/8 inch 3/16 inch 1/4 inch Shipping weight 12 oz. 1 lb. 2 oz. 2 lbs. 3 oz. 3 lbs. 5 oz. Per set \$2.59 \$2.85 \$4.25 \$5.25

9 PC 3783—Complete set of alphabet, period and "8." Please be sure to state size wanted. Size. 1/8 inch 3/16 inch 1/4 inch Shipping weight 2 lbs. 2 lbs. 13 oz. 6 lbs. 9 lbs. 10 oz. Per set \$7.35 \$7.75 \$12.75 \$15.25

CRAFTSMANTHE RIGHT WAY
TO SAY
**HARDWARE
AND TOOLS****CRAFTSMAN**
REG. U.S. PAT. OFF.**METAL TURNING LATHE**

To our knowledge, the only back-geared
screw-cutting lathe in this price range...

- 1 Back gears give the greater power needed for machining different metals
- 2 Double bearing headstock has bronze bearings; front bearing adjustable
- 3 Compound rest and cross feed accurately gibbed for wear take-up
- 4 The tailstock may be easily set over for turning tapers when desired

Complete with equipment shown

\$4295Cash
\$4.50 down on Terms

6-inch swing... 22 1/4-inch bed... 12 inches between centers

You're due for a real surprise when you see this great CRAFTSMAN Lathe! At such a price, you'd never expect a complete back-geared screw-cutting lathe, so packed with quality features and with such fine precision construction in every detail.

An ideal tool for turning armatures, model making, experimental, tool room work, and scores of other small metal turning jobs.

Offset center construction keeps pressure of work on the tool bit between the ways, even when handling larger work. This overcomes one of the great disadvantages of ordinary small metal-turning lathes, and assures much smoother, more accurate performance than would ordinarily be possible with a lathe of this size.

Accurately machined V-way bed. Removable No. 0 Morse taper centers in headstock and tailstock. Hardened and ground spindle is threaded 1/4-inch 20-thread. Speed range: 116 to 2040 R.P.M. Feeds: .0024, .0039, .0048, .0078 inch. Threading gears are supplied to cut threads from 8 to 96 per inch, right or left hand.

We recommend a minimum of 1/4-H.P. 1750 R.P.M. motor. (Motor is not included.) Lathe comes complete with the accessories shown at left, including two 60-degree centers, 1/4-inch tool bit, Allen wrench, 1/2-inch lathe dog, 4-inch face plate, 8 threading gears, 4-step motor V-pulley, 3/8-inch V-belt. Over-all length 26 inches. Remember—you can get it for only \$4.50 down on Sears Easy Terms.

99 PCM 2063—Shipping weight 55 pounds..... \$42.95

Two 60°
centers

1/4-in. tool bit

Allen wrench



1/2-in. lathe dog



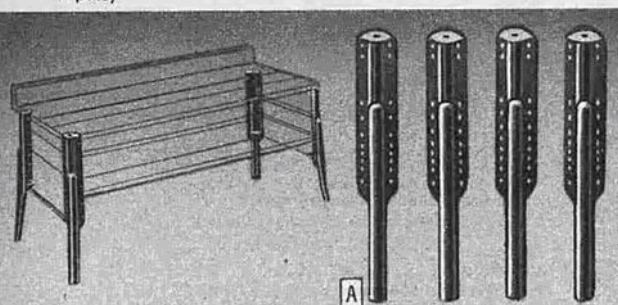
4-in. face plate



8 threading gears

4-step motor
V-pulley

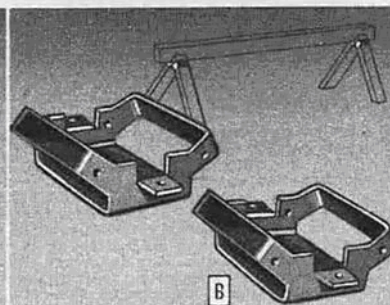
3/8-inch V-belt

**CRAFTSMAN Bench Leg Set**

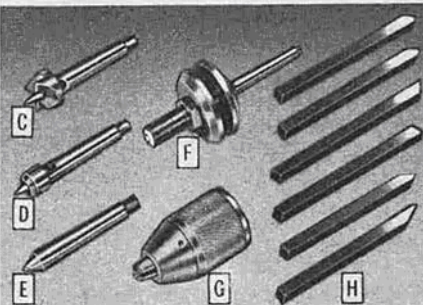
A Build a strong, rigid work bench, machine table or lathe bench with CRAFTSMAN steel legs and your own lumber. In this way, you can own a rugged well-made bench at an exceptionally low price. Each leg made from one piece of extra heavy cold rolled steel; punched at top for attaching to boards. Bottoms punched for fastening to floor, or attaching casters. Perforations for installing a lower shelf or cross braces (stringers) at six different heights; or side boards may be added.

Set includes 4 steel bench legs with shelf support brackets; lag screws for fastening legs to bench top; cadmium-plated bolts, lock washers and nuts for fastening brackets, and instructions for assembling. Gray enameled finish. Wood parts not included.

99 PC 02732—Height, 26 inches. Shipping weight 17 pounds.
Set of 4 legs..... \$6.00
99 PC 02731—Height, 31 inches. Shipping weight 18 pounds.
Set of 4 legs..... \$6.00

**Steel Sawhorse Brackets**

B Make your own saw-horses quickly and easily—set up tables, platforms, etc. Brackets are of heavy gauge rust-resistant plated steel. Electrically welded into one solid unit. Wedge-shaped design enables brackets to stand tremendous weight. The more weight applied, the tighter the frame becomes. Quickly dismantled. May be used again and again. All you need is a set of brackets and your own lumber. For use with 2x4's. Lumber not included. Shipping wt. 3 lbs.
9 PC 2889.....Set of 2 for \$14.45

**Accessories for above Lathe**

C Spur Center, No. 0 Morse Taper. 9 PC 2108—Shipping weight 3 ounces.....65c
D Cup Center, No. 0 Morse Taper. 9 PC 2109—Shipping weight 3 ounces.....63c
E 60° Center, No. 0 Morse Taper. 9 PC 2103—Shipping weight 3 ounces.....55c
F Work Arbor, No. 0 Morse Taper. 1/2-inch by 20-thread. Two steel washers on head end. For holding grinding wheels, buffing wheels, etc. 9 PC 2117—Shipping weight 8 ounces.....95c
G 1/2-inch 3-jaw Chuck. Must be used with 9 PC 2117 work arbor. 9 PC 2256—Shipping weight 12 ounces.....90c
H Tool Bit Set. Six 1/4-inch bits. High speed tool steel; ground, ready for use. Includes threading; L.H. facing; R.H. turning; round nose turning; R.H. facing; L.H. turning. 9 PC 2205—Shipping weight 8 ounces.....Set \$2.30

JACOBS CHUCKS for drill presses ... lathes ... electric drills, etc.

Genuine Jacobs chucks and arbors, known wherever drills or lathes are used, for their correct design, excellence of materials, precision manufacture. Sears is proud to offer you this wide range of Jacobs products to meet your every need.

Jacobs Commutator Kit

A For holding armature shafts rigidly during reconditioning. Kit consists of: one No. 75A armature driving chuck; one No. 100 center rest chuck (capacity, $\frac{1}{4}$ to $\frac{3}{4}$ inch); two arbors with No. 2 Morse taper and No. 3 Jacobs taper; one chuck key; all in strong metal box.

9 PC 2129—Postpaid..... **\$20.30**

Jacobs Headstock Chucks

B Jacobs No. 55B. Cap. 0 to $\frac{1}{2}$ in. Fits 1-in. 8-thread spindle. Cannot be used with any arbor.

9 PC 2044—Postpaid..... **\$12.00**

Jacobs No. 58B. Capacity $\frac{1}{8}$ to $\frac{1}{2}$ inch. Fits $\frac{1}{2}$ -inch 8-thread spindle. Can be used with No. 3 Jacobs taper arbor.

9 PC 2144—Postpaid..... **\$15.00**

Jacobs No. 59B. Capacity $\frac{3}{16}$ to $\frac{3}{4}$ inch. Fits $\frac{1}{2}$ -inch 8-thread spindle. Cannot be used with any arbor.

9 PC 2121—Postpaid..... **\$18.00**

Jacobs Drill Chucks

C Key-type Jacobs chucks designed to fit arbors with No. 33 Jacobs taper.

9 PC 2142—Jacobs No. 33. Cap. $\frac{1}{8}$ to $\frac{1}{2}$ inch. Postpaid..... **\$5.85**

9 PC 2143—Jacobs No. 6A-33. Cap. 0 to $\frac{1}{2}$ inch. Postpaid..... **\$6.75**

Jacobs Center-rest Chuck

D Jacobs No. 100CR. Capacity $\frac{1}{4}$ to $\frac{3}{4}$ inch. Must be used with No. 3 Jacobs taper arbor to support centerless armatures, etc.

9 PC 2991—Postpaid..... **\$10.00**

Jacobs Chuck Arbors

Precision-ground with extreme accuracy to insure maximum accuracy of machine spindle and chuck.

E No. 0 Morse taper and No. 33 Jacobs taper. For 9PC2142 and 9PC2143 Jacobs chucks listed at left.

9 PC 2131—Postpaid..... **80c**

No. 1 Morse taper and No. 33 Jacobs taper. For 9PC2142 and 9PC2143 listed at left.

9 PC 2123—Postpaid..... **80c**

No. 2 Morse taper and No. 33 Jacobs taper. For 9PC2142 and 9PC2143 listed at left.

9 PC 2124—Postpaid..... **80c**

No. 0 Morse taper and No. 3 Jacobs taper. For 9PC2129, 9PC2144, and 9PC2991 Jacobs chucks at left.

9 PC 2133—Postpaid..... **80c**

No. 1 Morse taper; No. 3 Jacobs taper. For 9PC2129, 9PC2144, and 9PC2991 at left.

9 PC 2154—Postpaid..... **80c**

No. 2 Morse taper; No. 3 Jacobs taper. For 9PC2129, 9PC2144, and 9PC2991 at left.

9 PC 2126—Postpaid..... **80c**

Jacobs Chuck Keys

F Jacobs No. 1 Key. Fits Jacobs chucks Nos. 1, 1A, 1B, 1BB, 1BS.

9 PC 2051—Postpaid..... **27c**

Jacobs No. 32 Key. Fits Jacobs chucks Nos. 32, 32B, 33, 33B, 9, 11, 381, 32BB, 33BB.

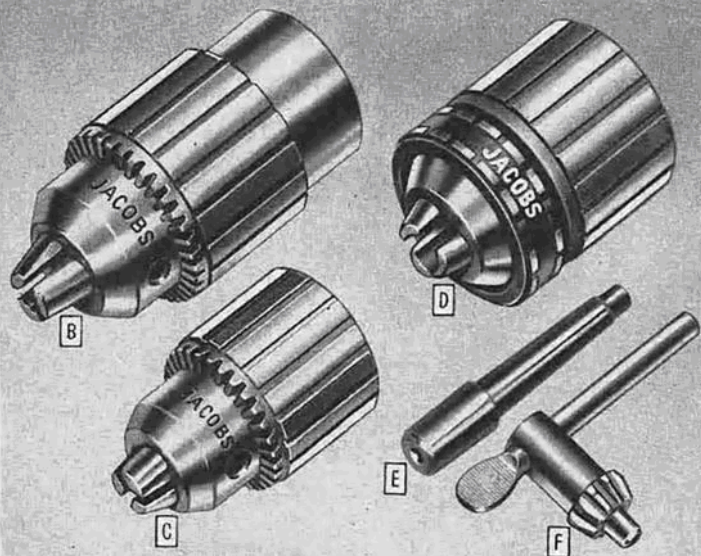
9 PC 2054—Postpaid..... **36c**

Jacobs No. 3 Key. Fits Jacobs chucks Nos. 3, 3A, 3B, 3AE, 6, 6A-2A, 6A-33, 6B, 6AE, 34, 34B, 14, 54B, 55B, 56B, 58B, 75A.

9 PC 2052—Postpaid..... **45c**

Jacobs No. 4 Key. Fits Jacobs chucks Nos. 4, 16, 18, 36, 36B, 59B.

9 PC 2053—Postpaid..... **68c**



Jacobs Hand Tite Chucks

G Jacobs No. 4164. Capacity 0 to $\frac{1}{4}$ in. Tapped $\frac{1}{4}$ in. x 20-thread.

9 PC 2175—Postpaid..... **\$1.30**

Jacobs No. 4165. Capacity 0 to $\frac{1}{4}$ in. Tapped $\frac{1}{4}$ in. x 24-thread.

9 PC 2145—Postpaid..... **\$1.30**

Jacobs No. 4191. Capacity 0 to $\frac{1}{4}$ in. Tapped $\frac{1}{4}$ in. x 24-thread.

9 PC 2146—Postpaid..... **\$1.30**

Jacobs No. 4364. Capacity 0 to $\frac{3}{8}$ in. Tapped $\frac{1}{4}$ in. x 20-thread.

9 PC 2176—Postpaid..... **\$2.00**

Jacobs No. 4365. Capacity 0 to $\frac{3}{8}$ in. Tapped $\frac{1}{4}$ in. x 24-thread.

9 PC 2147—Postpaid..... **\$2.00**

Jacobs No. 4464. Capacity $\frac{1}{8}$ to $\frac{1}{2}$ in. Tapped $\frac{1}{4}$ in. x 20-thread.

9 PC 2177—Postpaid..... **\$2.00**

Jacobs No. 4465. Capacity $\frac{1}{8}$ to $\frac{1}{2}$ in. Tapped $\frac{1}{4}$ in. x 24-thread.

9 PC 2149—Postpaid..... **\$2.00**

Jacobs Hex Key Chucks

For use with electric tools.

H Jacobs No. 6141. Capacity 0 to $\frac{1}{4}$ in. Spindle $\frac{1}{2}$ in. x 24-thread.

9 PC 2992—Postpaid..... **\$2.30**

Jacobs No. 6344. Capacity 0 to $\frac{3}{8}$ in. Spindle $\frac{1}{2}$ in. x 20-thread.

9 PC 2993—Postpaid..... **\$4.00**

Jacobs No. 6444. Capacity $\frac{1}{8}$ to $\frac{1}{2}$ in. Spindle $\frac{1}{2}$ in. x 20-thread.

9 PC 2999—Postpaid..... **\$4.00**

J Jacobs No. 6325. Capacity 0 to $\frac{3}{8}$ in. Bored $\frac{1}{4}$ -inch straight hole.

9 PC 2936—Postpaid..... **\$4.00**

Jacobs No. 6326. Capacity 0 to $\frac{3}{8}$ in. Bored $\frac{3}{8}$ -inch straight hole.

9 PC 2937—Postpaid..... **\$4.00**

Jacobs No. 6425. Capacity $\frac{1}{8}$ to $\frac{1}{2}$ in. Bored $\frac{1}{4}$ -inch straight hole.

9 PC 2938—Postpaid..... **\$4.00**

Jacobs No. 6426. Capacity $\frac{1}{8}$ to $\frac{1}{2}$ in. Bored $\frac{3}{8}$ -inch straight hole.

9 PC 2939—Postpaid..... **\$4.00**

Jacobs Arbors

K Jacobs No. A0025. Fits chucks 9PC2936 (Jacobs 6325) and 9PC2938 (Jacobs 6425) at left. No. 0 Morse taper on one end, $\frac{1}{4}$ -inch ground straight shank on other.

9 PC 2384—Postpaid..... **90c**

Jacobs No. A0026. Fits chucks 9PC2937 (Jacobs 6326) and 9PC2939 (Jacobs 6426) at left. No. 0 Morse taper on one end, $\frac{3}{8}$ -inch ground straight shank on other.

9 PC 2385—Postpaid..... **90c**

Jacobs No. A0125. Fits chucks 9PC2936 (Jacobs 6325) and 9PC2938 (Jacobs 6425) at left. No. 1 Morse taper on one end, $\frac{1}{4}$ -inch ground straight shank on other.

9 PC 2386—Postpaid..... **90c**

Jacobs No. A0126. Fits chucks 9PC2937 (Jacobs 6326) and 9PC2939 (Jacobs 6426) at left. No. 1 Morse taper on one end, $\frac{3}{8}$ -inch ground straight shank on other.

9 PC 2387—Postpaid..... **90c**

Jacobs No. A0225. Fits chucks 9PC2936 (Jacobs 6325) and 9PC2938 (Jacobs 6425) at left. No. 2 Morse taper on one end, $\frac{1}{4}$ -inch ground straight shank on other.

9 PC 2388—Postpaid..... **90c**

Jacobs No. A0226. Fits chucks 9PC2937 (Jacobs 6326) and 9PC2939 (Jacobs 6426) at left. No. 2 Morse taper on one end, $\frac{3}{8}$ -inch ground straight shank on other.

9 PC 2389—Postpaid..... **90c**

Jacobs Replacement Collets

L Jacobs No. J61. Capacity 0 to $\frac{1}{4}$ in. Fits chucks 9PC2175, 9PC2145, 9PC2146, and 9PC2992, listed at left.

9 PC 2180—Postpaid..... **70c**

Jacobs No. J63. Capacity 0 to $\frac{3}{8}$ in. Fits chucks 9PC2176, 9PC2147, 9PC2993, 9PC2936, 9PC2937, listed at left. Interchangeable in chucks using 9PC2182 below.

9 PC 2181—Postpaid..... **\$1.40**

Jacobs No. J64. Capacity $\frac{1}{4}$ to $\frac{1}{2}$ in. Fits chucks 9PC2177, 9PC2149, 9PC2938, 9PC2939, 9PC2999 listed at left. Interchangeable in chucks using 9PC2181 above.

9 PC 2182—Postpaid..... **\$1.40**

CRAFTSMAN Work Arbors

M General purpose Arbor. Converts your motor into a grinder, polisher, buffer, etc. $\frac{23}{32}$ -inch spindle is $\frac{1}{2}$ -inch by 20-thread. 4 inches long, over-all. Of carbon steel. Precision machined steel collars for clamping grinding or buffing wheels. $\frac{1}{2}$ or $\frac{3}{8}$ -inch bore. State bore.

9 PC 2164—Shipping wt. 12 oz. **62c**

N Arbor for electric drills. For holding grinding wheels, wire wheels, buffing wheels, etc. $\frac{1}{4}$ -inch shank. Arbor is $\frac{1}{2}$ -inch by 20-thread. $3\frac{1}{2}$ inches long. $1\frac{1}{4}$ -inch flanges with nuts, in one piece. Precision made of carbon steel.

9 PC 2594—Shipping wt. 6 oz. **49c**

CRAFTSMAN Lathe Chucks

P Universal type. Three-jaw, self-centering, lever-operated type ... only two main parts, body and scroll. Ideal for production work because of speed in gripping. Centers accurately to precision limits ... tolerances held to within .003 inch. Case-hardened, cold rolled steel jaws; polished steel body and scroll. Knurled rim for easy hand operation. Body casting is precision threaded to fit directly on spindle. With two sets of jaws; one for outside and one for inside gripping. Wrench included.

9 PC 2295—CRAFTSMAN. Fits $\frac{1}{2}$ -in. by 20-thread spindle. Diameter 2 inches. Shipping weight 1 lb. 12 oz. **\$16.85**

9 PC 2296—CRAFTSMAN. Fits $\frac{1}{2}$ -in. by 20-thread spindle. Diameter 3 inches. Shipping weight 3 lbs. 5 oz. **\$17.85**

9 PC 2297—CRAFTSMAN. Fits 1-in. by 8-thread spindle. Diameter 4 inches. Shipping weight 6 lbs. 5 oz. **\$21.75**

9 PC 2298—CRAFTSMAN. Fits $1\frac{1}{2}$ -in. by 8-thread spindle. Diameter 5 inches. Shipping weight 10 pounds. **\$25.95**

9 PC 2299—CRAFTSMAN. Fits $1\frac{1}{2}$ -in. by 8-thread spindle. Diameter 6 inches. Shipping weight 15 lbs. **\$33.50**

CRAFTSMAN Lathe Chucks

R Independent type. CRAFTSMAN improved 4-jaw lathe chucks are precision made of the finest materials; fit any make of wood or metal turning lathe with spindle diameters and threads per inch as indicated in the listings below. Chuck body of special alloy steel has wide, deep jaw slots for added strength and increased bearing surface.

Four reversible jaws drop forged from a solid bar of special steel; work independently; increases chuck's usefulness when working on irregular shaped pieces. Large diameter jaw screw for extra strength. Acme threaded. T-handle chuck wrench included; fits deep hexagon seat.

9 PC 2137—CRAFTSMAN Lathe Chuck. Fits $\frac{1}{2}$ -inch by 24-thread spindle. Diameter 3 inches. Shipping weight 2 pounds 8 ounces. **\$7.10**

9 PC 2157—CRAFTSMAN Lathe Chuck. Fits $\frac{1}{2}$ -inch by 20-thread spindle. Diameter 3 inches. Shipping weight 2 pounds 8 ounces. **\$7.10**

9 PC 2156—CRAFTSMAN Lathe Chuck. Fits $\frac{1}{2}$ -inch by 16-thread spindle. Diameter 4 inches. Shipping weight 3 pounds 10 ounces. **\$8.25**

9 PC 2138—CRAFTSMAN Lathe Chuck. Fits 1-inch by 8-thread spindle. Diameter 4 inches. Shipping weight 3 pounds 12 ounces. **\$8.25**

9 PC 2139—CRAFTSMAN Lathe Chuck. Fits $1\frac{1}{2}$ -inch by 8-thread spindle. Diameter 6 inches. Shipping weight 9 pounds 10 ounces. **\$15.50**

9 PC 2141—CRAFTSMAN Lathe Chuck. Fits $1\frac{1}{2}$ -inch by 8-thread spindle. Diameter 8 inches. Shipping weight 25 pounds. **\$27.95**

It's easy to buy Shop Equipment on Sears Easy Payment Terms. See Page 40 for details

Zone 2 PAGE 29 .. CHUCKS



A \$35.50
Cash
Less Motor \$4.00 Down
\$54.45 with Motor

Overall height,
26 1/2 inches

Overall height,
31 1/2 inches

B \$60.95
Cash
Less Motor \$6.50 Down
\$88.90 with Motor

CRAFTSMAN DRILL PRESSES

1947 models, new designs, new features...available with motors

CRAFTSMAN Bronze bearing Drill Press

- Three self-lubricating bronze bearings. "Floating Drive" spindle assembly eliminates belt pull and "whip." New, improved coil spring quill return. 6-spline spindle; travel 3 inches; threaded 1/2-20 thread at chuck.
- Equipped with 1/2-inch capacity 3-jaw chuck... holds drill bits securely.
- Smooth ground 7 3/4 x 7 3/4-inch cast iron table, slotted for attachments.
- 1 1/2-inch diameter column; smooth ground, polished for easy adjustments.

A Drills to center of 12 1/2-inch circle. Spindle travel 3 inches. Adjustable stop collar for repetitive drilling. Accurate depth gauge graduated in 16ths of an inch. "Floating Drive" assembly eliminates belt pull and "whip." 3/4-inch diameter 6-spline spindle is threaded 1/2-20 thread at chuck.

New, improved coil spring quill return. Rubber cushion absorbs quill return shock. Has quick-acting quill lock. Three self-lubricating bronze bearings. Ball bearing absorbs spindle thrust. Smooth ground 7 3/4 x 7 3/4-inch iron table and base slotted for attachments.

Has eleven speeds from 750 R.P.M. to 4000 R.P.M., using two 4-inch 4-step pulleys and V-belt (which are included). Over-all height 26 1/2 inches; table travel 8 1/2 inches; base to chuck 11 1/2 inches.

99 PCM 2310—Without motor. Shipping weight 75 pounds..... \$35.50
99 PCM 2311—With 1/2-H.P. split phase 115-volt 60-cycle ball bearing motor. Shipping weight 105 pounds..... 54.45

CRAFTSMAN Ball bearing Drill Press

- Four sets of double sealed precision ball bearings. "Floating Drive" spindle assembly absorbs side thrust of belt pull and eliminates whip. New, improved coil spring quill return, 6-spline spindle has 3 1/2-in. travel.
- World-famous Jacobs No. 33 chuck takes drills from 3/64 to 1/2-inch.
- Smooth ground cast iron table is slotted; tilts 90 degrees right or left.
- Precision ground 2 1/4-inch diameter column supports head and table.

B Drills to center of 13 1/2-inch circle. Heavy duty drill press with four sets of double-sealed precision ball bearings. Adjustable stop collar for repetitive drilling. Accurate depth gauge graduated in 16ths of an inch. Has famous "Floating Drive" spindle assembly. 3/4-inch diameter 6-spline spindle with No. 33 Jacobs taper. Rubber cushion absorbs shock of quill return. Quill has precision ground teeth; quick-acting quill lock. Adjustable stop gauge graduated in 16ths of an inch; may be set for repetitive drilling. Cast iron table and base both ground smooth and slotted. Over-all height 31 1/2 in.; table to chuck 10 1/2 in.; base to chuck 14 3/4 in.; table travel 10 5/8 in. Eleven speeds from 625 to 5000 R.P.M. using two 5-in. 4-step pulleys and V-belt (included).

99 PCM 2364—Without motor. Shipping weight 107 pounds..... \$60.95
99 PCM 2366—With 1/2-H.P. capacitor 115-volt 60-cycle ball bearing motor. Shipping weight 142 pounds..... 88.90

DUNLAP Heavy duty Power Hack Saw

\$44.95
Cash
\$4.50 Down

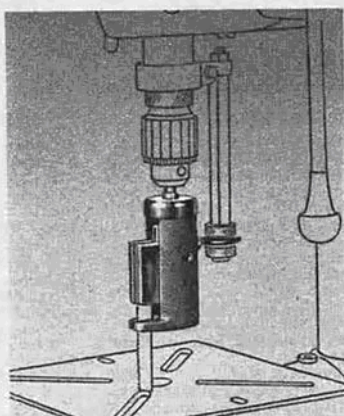


Fully automatic... A great time and labor saver! Reduces operating costs... speeds up production.

Makes the cut alone while you keep working on other jobs! Draw-cut type, with automatic relieving mechanism to lift the blade from the work on the back stroke—thus adding to the life of the blade. Saws iron, steel, brass, aluminum, bakelite, etc. Will cut stock up to 4x4 inches at 90 degrees; makes angle cuts 90 degrees to 45 degrees. Length of stroke 5 inches; 60 strokes per minute.

Finest quality extra large bronze ball bearings throughout! Quick-locking vise holds work securely. Heavy cast iron construction throughout. We recommend minimum of 1/4-H.P. motor. Motor is not included. Takes any standard 12-inch power hack saw blade. One CRAFTSMAN high speed power hack saw blade included.
99 PCM 2294—Shipping weight 80 pounds..... \$44.95

CRAFTSMAN high speed power Hack Saw Blades. Made of special tool steel, carefully heat-treated, hardened and tempered to far outlast ordinary hack saw blades. Specially designed for cutting hard metals at very high speeds. 12 inches long; 3/8-inch wide. 14 or 18 teeth per inch. Please state choice of teeth wanted.
9 PC 6582—Shipping weight 3 ounces..... 2 for 98c

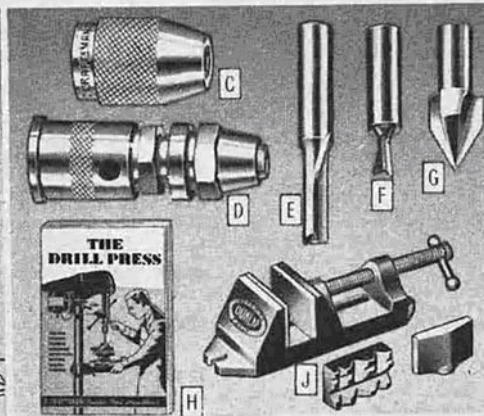


Roto-Vert Senior

CRAFTSMAN. Converts a drill press into a power sawing and filing machine. Easily attached to presses having a depth gauge as illustrated. Can also be used with 3/4-inch and larger electric hand drills. Cuts straight or irregular shapes in wood, metal, wallboard, etc. Solid brass case; gray wrinkle finish; chromium plated trim. Only two moving parts of tool steel; no gears or springs to break. Accurately machined and assembled. Overall length 5 7/8 inches. Complete with easy to follow instructions. Shpg. wt. 2 lbs. 13 oz.
9 PC 2600..... \$14.75

Collet Chucks

- C** 9 PC 2271—Screw-on type. 3/4-in. capacity; for 1/2-in. 20-thread spindle. Shpg. wt. 3 oz. 92c
D 9 PC 2455—Fits No. 33 Jacobs taper. 1/2-in. capacity with 1/4-in. bushing. For 1/4 and 1/2-in. diameter shanks. Shpg. wt. 8 oz. \$1.30



Drill Press Accessories

Heat treated Tool Steel Cutters. Do routing, carving and dovetailing on your drill press. Perfectly ground to exact dimensions. 3/4-inch shanks. Fit collet chuck, 9PC2455, listed below at left. Do not use in Jacobs' key type drill chucks!

- E** 9 PC 2400—1/2-inch router. Shpg. wt. 6 oz..... \$1.09
9 PC 2401—3/4-inch router. Shpg. wt. 6 oz..... \$1.23
9 PC 2402—5/8-inch router. Shpg. wt. 6 oz..... 1.39
9 PC 2403—1/2-inch router. Shpg. wt. 6 oz..... 1.60
9 PC 2404—3/4-inch router. Shpg. wt. 6 oz..... 1.89
F 9 PC 2409—1/4-inch dovetail router. Shpg. wt. 6 oz..... \$1.09
9 PC 2410—3/8-inch dovetail router. Shpg. wt. 6 oz..... 1.19
9 PC 2411—1/2-inch dovetail router. Shpg. wt. 6 oz..... 1.23
G 9 PC 2415—1/2-in. carving router. Shpg. wt. 6 oz..... \$1.89
9 PC 2416—3/4-in. carving router. Shpg. wt. 6 oz..... 2.05
H Drill Press Book. 32 pages. Describes and illustrates over 100 drill press operations. Adds many uses to your drill press. Describes use of accessories available, and suggests many helpful home made aids.
9 PC 2921—Postpaid..... 30c
J DUNLAP Drill Press Vise. Strong cut steel screw; knurled end; sliding handle. Non-ferrous metal base. Steel faced 2 3/4-inch cast iron jaws... open to 3 inches. Over-all length 10 1/2 inches. With two extra jaws, one for round or irregular work, one for tapered pieces.
9 PC 2436—Shpg. wt. 4 lbs..... \$3.15

HEAVY DUTY TYPES

Finest Drill Presses we've ever sold . . . available with motors

Industrial quality ball bearing Drill Press

1. Four double sealed ball bearings. "Floating Drive" spindle assembly eliminates side thrust of belt pull and pulley "whip." New improved coil spring return. 4-inch spindle travel.
2. Equipped with Jacobs 6A-33 chuck; 0 to 1/2-inch capacity.
3. Large 10x10-inch smooth, accurately ground semi-steel table.
4. Heavy 2 3/4-inch diameter column for rugged industrial use.

Drills to center of 15-inch circle. Power and accuracy to meet the most exacting demands of day-in, day-out industrial use! Time tested "Floating Drive" spindle assembly . . . spindle floats within pulley. Four heavy duty precision ball bearings absorb radial and thrust load. Has 6-spined tapered spindle.

New improved coil spring spindle return. Rubber cushion takes up quill return shock. Rubber cushion preloads bearings in quill to take up quill wear and reduce spindle end play after long use . . . reduces small drill breakage. Simple, accurate depth gauge graduated in 16ths inch. Accurate adjustable stop collar for repetitive drilling. Quick, positive acting quill lock to do routing, shaping, sanding, mortising with proper attachments.

Table tilts any angle to 90° right or left; slotted to hold fixtures securely. Dowel holds table and support in perfect alignment at horizontal position. At other positions, equalizing double-shoe lock assures correct alignment at any desired angle. Massive cast semi-steel base has 10x10-inch working surface, smooth ground and slotted to act as auxiliary table. Table swings completely out of way for work of unusual size or shape. Chuck key holder built into frame.

Two 5-inch 4-step cone pulleys with 3/4-inch V-belt permit eleven speed variations from 625 to 5000 R.P.M. Available in floor or bench models, with or without motor.

A 99 PCM 2313—Bench model without motor. Over-all height 36 3/8 in.; base to chuck 17 1/8 in.; maximum table travel 13 3/8 in. With motor pulley, V-belt, chuck and key. Shipping weight 135 pounds. . . . **\$70.95**

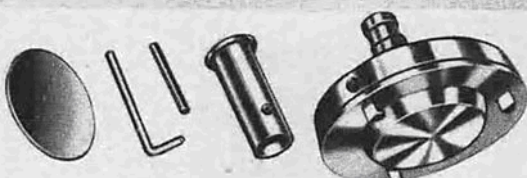
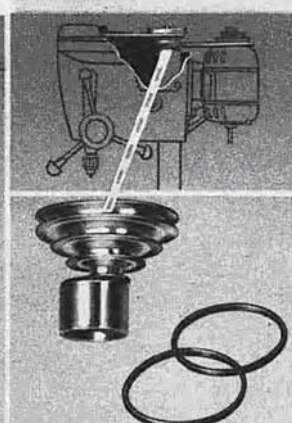
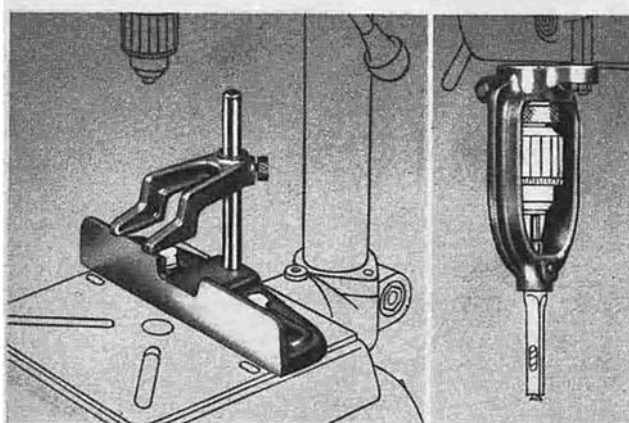
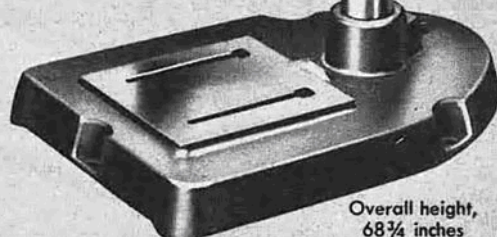
99 PCM 2330—Bench model with motor. 99PCM2313 drill press with 1/2-H.P. capacitor ball-bearing motor. Wt. 170 lbs. . . . **\$98.90**

B 99 PCM 2314—Floor model without motor. Over-all height 68 3/8 in.; base to chuck 45 3/8 in.; maximum table travel 41 3/8 in. With motor pulley, V-belt, chuck and key. Shipping weight 194 pounds. . . . **\$80.95**

99 PCM 2331—Floor model with motor. 99PCM2314 drill press with 1/2-H.P. capacitor ball-bearing motor. Wt. 229 lbs. . . . **\$108.90**

A \$70.95
cash
Less Motor
\$7.50 Down
with
Motor
\$98.90

B \$80.95
cash
Less Motor
\$8.50 Down
with
Motor
\$108.90



CRAFTSMAN

Hold-Down and Guide

Will fit almost any drill press table. An accessory that is indispensable in mortising. Fingers on hold-down prevent work from being lifted when chisel or drill is raised. Adjustable for thick or thin materials. Fence keeps work lined up. Attachment bolts to drill press table and may be adjusted forward or backward simply by loosening bolts. Fence section can also be used without the hold-down to serve as a guide in routing, inlay work, repetitive drilling and similar operations. Durable heavy cast iron construction for long, dependable use. Shipping weight 6 lbs. 6 oz.
9 PC 2457 **\$4.85**

CRAFTSMAN

Mortising Chisel Housing

This CRAFTSMAN Mortising Chisel Housing greatly increases the usefulness of your drill press. Makes it possible to cut square holes, when used with a hollow chisel and mortising bit. May be used with almost any hollow chisel and mortising bit. (Chisel and mortising bit not included.) The mortising chisel housing mounts on the quill of the drill press. Will fit drill presses 99 PCM 2364 (shown on opposite page), 99 PCM 2313 (above) and 99 PCM 2314 (above). Strongly and accurately made of cast semi-steel. Easily and quickly attached to drill press; just as easily removed. Shipping weight 3 lbs.
9 PC 2467 **\$3.75**

CRAFTSMAN

Hi-Lo Attachment

For 99 PCM 2364 drillpress (opposite page) 99 PCM 2313 and 99 PCM 2314 (above) and some other drill presses with 2 or 2 1/2-inch (plus .005 inch) inside diameter columns. Get the most out of your drill press . . . the right speed for every job. Provides the wide range of speeds necessary for best results on shaping, routing and similar operations. Reduces speed for drilling hard metals; increases speed for more efficient routing. Gives 20 different speeds ranging from 200 R.P.M. to 15000 R.P.M. We recommend use of a minimum of 1/2-H.P. 1750 R.P.M. motor. Two V-belts are included. Shipping weight 5 lbs.
9 PC 2338 **\$11.15**

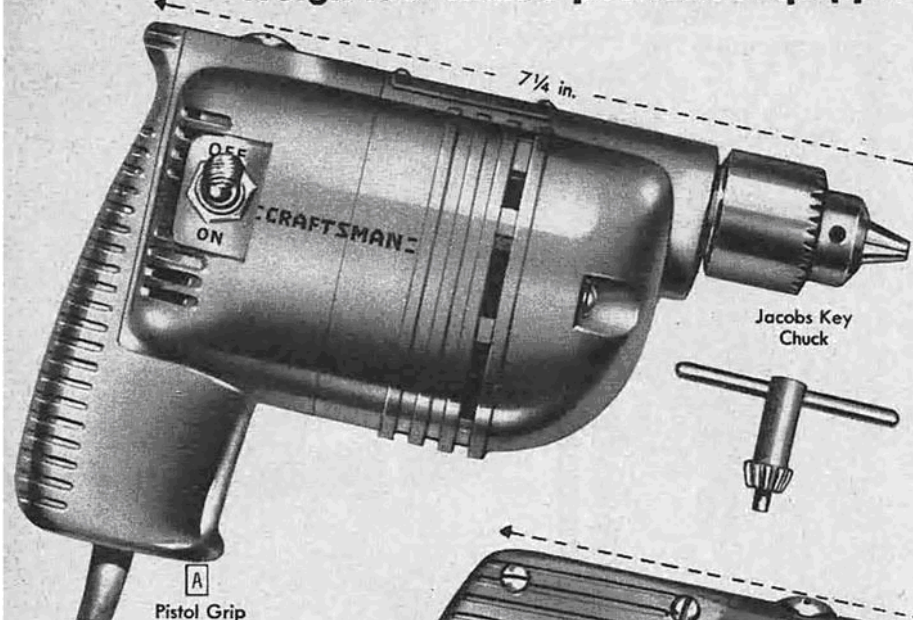
Barron Rotary Planer

Five tools in one . . . eliminates hand planing

Does planing, routing, rabbeting, tenoning and paneling. Fits any make of drill press with 3/4-inch chuck capacity. Adapter for taper spindle is included. You actually save \$1.00, because we furnish adapter which is usually sold as an extra. Will dress, true-up and accurately finish all types of wood. Will not burn, gouge or scratch. 12x28-in. board can be accurately planed and resurfaced in 45 to 60 seconds. Special molybdenum Tungsten tool steel blades ground, honed, adjusted for precision work. 3-in. diameter; 3/4-in. round arbor. Set includes: drill press adapter, Allen wrench, set-up gauge, push-down pin, complete instructions. Postpaid.
9 PC 2289—Barron Rotary Planer Complete **\$7.50**
9 PC 2280—Barron Rotary Planer Blade Holder. Not shown. For fast, accurate resharpening of Barron rotary planer blades. Assures correct angle. Made of steel. With instructions. Postpaid. Each **75c**
9 PC 2281—Barron Rotary Planer Blades. Special molybdenum Tungsten tool steel. 3/4-in. Postpaid. Set of 3. **\$1.75**
9 PC 2254—Spindle Adapter. For screw-on type chuck drill presses with 1/2-in. by 20-thread spindle. Postpaid. Each **\$1.50**

CRAFTSMAN ELECTRIC DRILLS... Packed with power!...

Weigh less than 3 pounds .. Equipped with 1/4-inch Jacobs key chuck

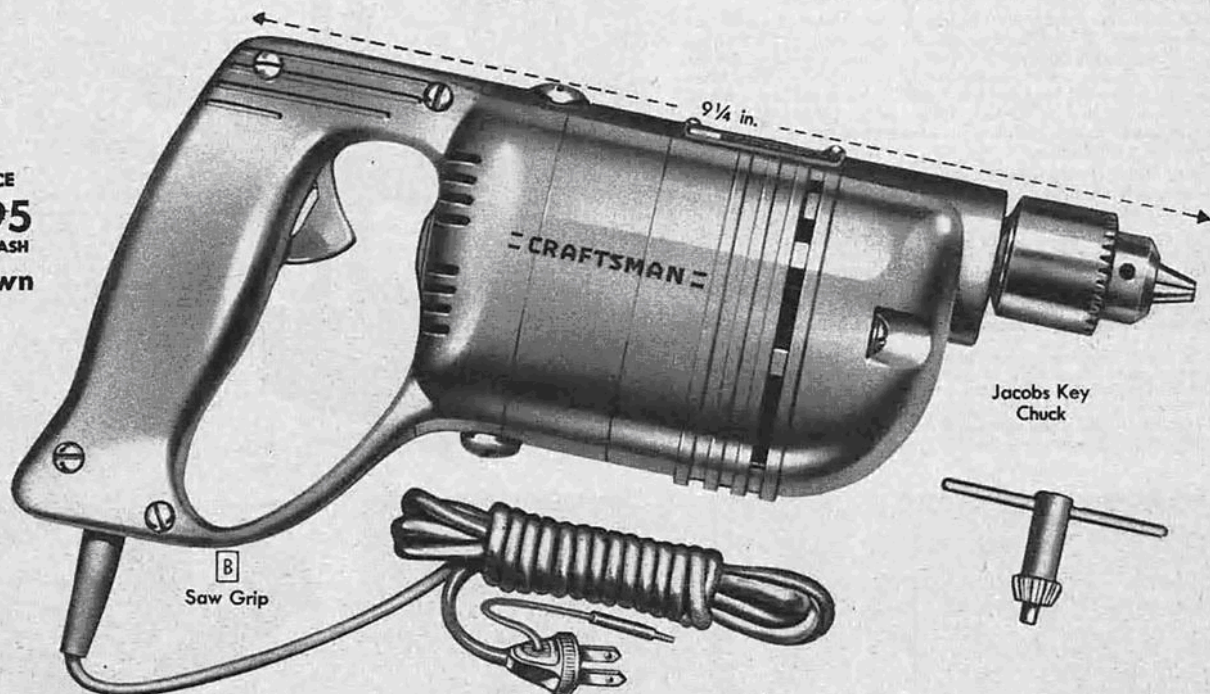


- Famous Jacobs key chuck... standard equipment on all best drills. Seats drills firmly; yet easily removed.
- Precision ball bearings at points of greatest wear... assure a true-running, trouble-free, long-life drill.
- Double reduction gears; cut from special alloy steel; perfectly meshed for smooth, quiet operation.
- Light weight die-cast aluminum frame; exceptionally strong for its weight; makes drill easy to handle.

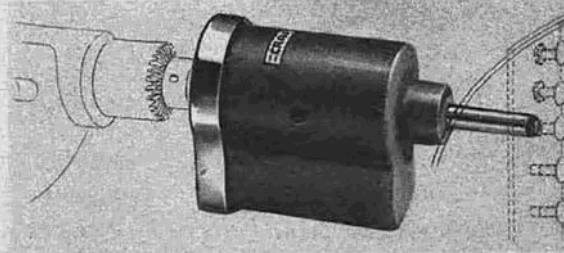
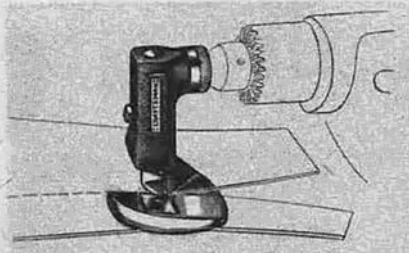
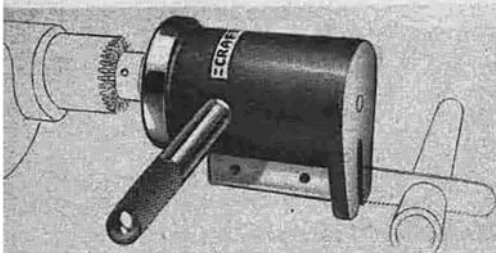
No wonder these powerful little brutes are taking the place of large, heavy, hard-to-handle drills! They're small... light... easy to handle... easy to get into close places—but, man, they pack a wallop! We tried to stall one of them, using a 1/4-inch bit on steel plate, but it couldn't be done!

Powerful universal motor for 110-120 volt A.C. or D.C. No-load speed 1600 R.P.M. Trigger switch on saw grip model; thumb switch on pistol grip drill. Listed by Underwriters' Laboratories. With 1/4-in. Jacobs key chuck and 7 1/2 feet of 3-wire rubber-covered cord with plug.

- A 9 PC 2577—Pistol-Grip Electric Drill.
Shipping weight 4 lbs. 4 oz. \$23.95
- B 9 PC 2578—Saw-Grip Electric Drill.
Shipping weight 4 lbs. 8 oz. 23.95



YOUR CHOICE
\$23.95
CASH
\$2.50 Down



100 more uses for your 1/4-inch drill with these accessories

Solid brass cases, with attractive gray wrinkle finish, and chromium plated trim. Only two moving parts in each tool; no gears or springs. All working parts made of tool steel, accurately machined and assembled for smooth, efficient operation and long life. For general purpose application on drills from 1600 to 2500 R.P.M. Easily and quickly attached. Complete instructions included.

CRAFTSMAN Roto-Vert. A portable power saw and filing machine when attached to a 1/4-inch electric drill. Ideal for cutting straight or irregular shapes in wood, metal, wallboard, etc. Cuts electric outlet openings, floor register openings, etc., in a jiffy. Fine for close quarters and hard-to-get-at places; for cutting bolts, angle iron, etc.; for filing or burring. Uses standard hack saw blades and files. Length over-all, 3 3/4 inches.

Used by electricians, plumbers, heating and ventilating men: in home and auto repair shops.
9 PC 2590—Shipping weight 2 pounds.... \$12.50

CRAFTSMAN Roto-Snip. Does metal shearing jobs two to three times faster. Eliminates the tiring work of cutting metal with hand snips. The Roto-Snip converts a 1/4-inch electric drill into a power shear for tinmiths, heating and ventilating contractors, maintenance men, hobbyists, etc. Light, compact, easy to handle.

Cuts sheet metal up to 20-gauge, either straight or circle down to 1 1/4-inch radius. Scribe lines can be easily followed. Cutting edges easily adjusted and resharpened. Height 3 1/2 inches.

9 PC 2591—Shipping weight 2 pounds.... \$18.75

CRAFTSMAN Roto-Poin. Converts your 1/4-inch electric drill into a power hammer. Does gouging, caulking, punching, light riveting, concrete drilling, and many other jobs, with attachments listed below. Complete with riveting attachment. Length over-all without attachment, 4 1/4 inches.

- 9 PC 2592—Shipping weight 2 pounds 3 ounces. \$12.50
- 9 PC 2595—1/4-inch Concrete Drill. Shipping wt. 4 oz. 79c
- 9 PC 2596—1/4-inch Cold Chisel. Shipping wt. 3 oz. 49c
- 9 PC 2597—1/2-inch Wood Chisel. Shipping wt. 3 oz. 79c
- 9 PC 2598—1/4-inch Center Punch. Shipping wt. 3 oz. 49c
- 9 PC 2599—1/4-inch Blanks. Set of 2 tool steel blanks that can be shaped to suit the job. Shpg. wt. 3 oz. Set of two 49c

CRAFTSMAN heavy duty Electric Drills

Precision ball bearings throughout
Lightweight, well balanced, accurate

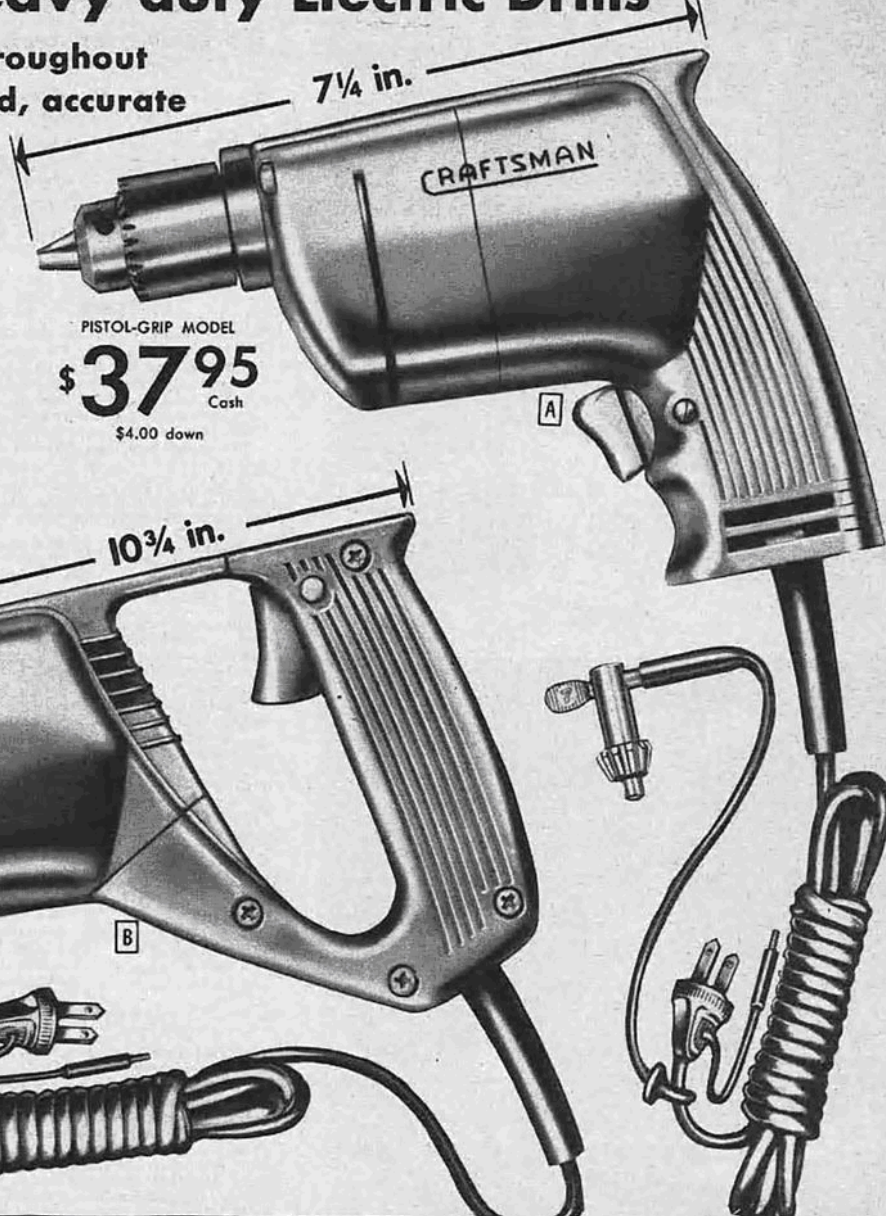
- NEW! We believe this is the finest drill on the market for power, weight and compact design.
- Heavy duty, large size $\frac{1}{2}$ -inch Jacobs No. 7B chuck.
- Precision ball bearings throughout; needle roller bearings on chuck spindle.
- Unusually lightweight . . . compact hand fitting design . . . strong die cast aluminum frame.
- Listed by Underwriters' Laboratories, Inc.

Real professional quality $\frac{1}{4}$ -inch heavy duty close quarter drills. Literally packed with power. Excellent design and construction, both inside and out. Accurately balanced.

Double-reduction nickel chrome molybdenum gears give a no-load spindle speed of 1600 R.P.M. Automatic safety release trigger switch has lock button for continuous operation. Universal motor for use on 110-120 volts, 25-60 cycle, A.C. or D.C. . . won't stall on toughest job, runs smooth and cool.

Equipped with 7 $\frac{1}{2}$ -foot three-wire, rubber-covered cord and unbreakable plug. Choice of pistol or saw-grip handle.

- A 9 PC 2570—Pistol-grip model. Shpg. wt. 5 lbs. \$37.95
B 9 PC 2571—Saw-grip model. Shpg. wt. 5 lbs. 3 oz. 37.95



PISTOL-GRIP MODEL

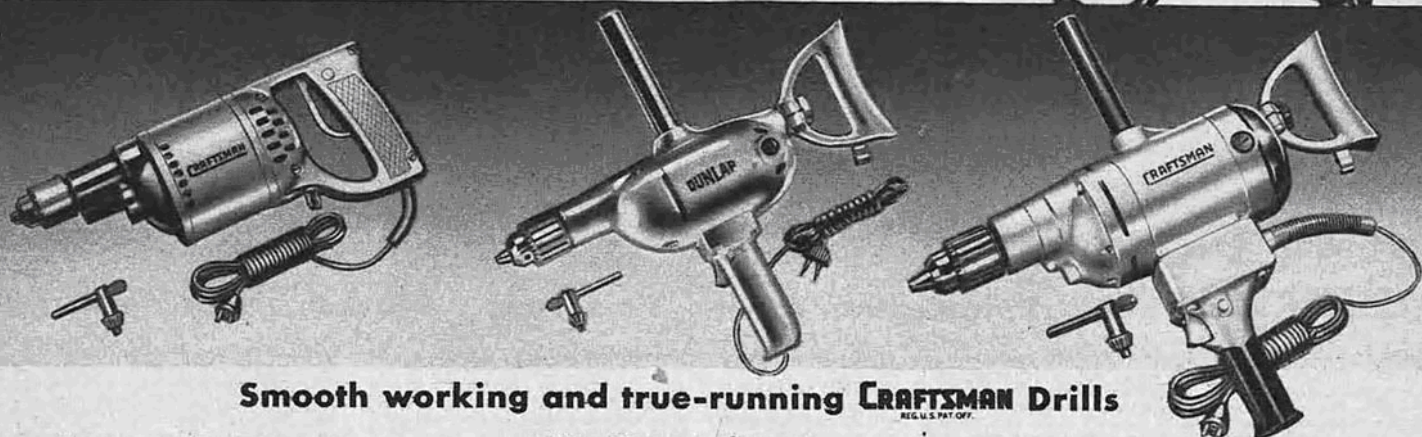
\$37⁹⁵
Cash
\$4.00 down

A

B

SAW-GRIP MODEL

\$37⁹⁵
Cash
\$4.00 down



Smooth working and true-running CRAFTSMAN Drills

CRAFTSMAN $\frac{3}{8}$ -inch Electric Drill

Heavy duty. Precision ball bearing electric drill with surplus power for heavy jobs. Light and easy to handle. Equipped with heavy duty universal ball bearing motor. Won't stall when used with $\frac{3}{8}$ -inch drill size. No-load speed 1000 R.P.M. Ball bearing armature and chuck spindle are sealed in oil. Run on New Departure ball bearings. Double reduction gears are made of specially heat treated steel. Equipped with genuine Jacobs' key chuck. Length 14 inches. Comes with 10-ft. rubber covered cord and plug. For 110-120 volt A.C. or D.C.
9 PC 2582—Shpg. wt. 10 lbs. 1 oz. \$52.95

\$52⁹⁵
Cash
\$5.50 down

DUNLAP $\frac{1}{2}$ -inch Electric Drill

Precision built drill with plenty of power. Ideal for garages. Has self lubricating oilite bronze bearing. Has ball thrust bearing on spindle to take up end thrust. Housing of sturdy, lightweight aluminum alloy. Fully enclosed, double-pole automatic releasing switch; locks for continuous running if desired. Double reduction gears are heat treated chrome-nickel steel. $\frac{1}{2}$ -inch capacity Jacobs' chuck. General Electric universal motor operates on 110-120 volt A.C. or D.C. No-load speed 400 R.P.M. Overall length 16 inches. With 10-ft. rubber-covered cord and plug.
99 PC 02584—Shpg. wt. 15 lbs. \$37.50

\$37⁵⁰
Cash
\$4.00 down

CRAFTSMAN production type Drills

For heaviest duty in shop or factory. Extra heavy duty universal motor. New Departure ball bearings sealed in oil. Jacobs chuck. Double pole automatic switch. Special steel triple reduction gears are heat treated chrome-nickel steel. No-load speed. Top and rear handle removable. Over-all length 19 inches. For 110-120 volt A.C. or D.C. 10-foot rubber covered 3-wire cord and unbreakable plug. Underwriters' Labs. Inc. approved.

\$64⁵⁰
Cash
\$6.50 down- $\frac{1}{2}$ in.

Catalog no.	Size drill	R. P. M.	Shpg. wt.	Price
99 PC 02585 . . .	$\frac{1}{2}$ -inch . . .	750 . . .	27 lbs. . .	\$64.50
99 PC 02586 . . .	$\frac{3}{8}$ -inch . . .	525 . . .	30 lbs. . .	71.95
99 PC 02587 . . .	$\frac{1}{4}$ -inch . . .	475 . . .	31 lbs. . .	76.95

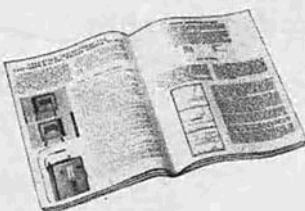


CRAFTSMAN

arc welders are approved by Underwriters' Laboratories, Inc. after passing their rigid burn-out tests.

CRAFTSMAN ARC WELDER OUTFITS

Do your own welding... save time, work and money!



Learning to weld is easy...

Save time and money. Make your own emergency repairs right at your shop or farm... build new equipment... improve machinery to fit your particular needs. It's easy to learn to weld! With each CRAFTSMAN electric arc welder, you get a booklet of easy-to-follow instructions plus a generous supply of practice welding rods. Read the directions... get a little practice... and you'll soon be able to weld well enough to do 95% of all your repair jobs... it's that simple.

CRAFTSMAN A. C. Arc Welders... 200 and 300-ampere sizes

- CRAFTSMAN Electric Arc Welders are listed by Underwriters' Laboratories, Inc. ... pass all Underwriters' Laboratories' standards for safety, freedom from fire hazard and temperature rise limits
- Coils insulated with sensational spun glass insulation... dipped in varnish, then baked
- Fire-resistant all-metal cabinets with control panels fully protected against dust and dirt
- Built-in reactance helps maintain steady arc at all heats... automatically increases voltage on low heats for easy striking. Transformer has high power factor for greater efficiency and reduced current consumption
- Complete range of current outlets allows wide variety of work. Cuts, brazes, solders and welds metals of all thicknesses. Even more versatile when used with CRAFTSMAN Twin Carbon Torch, 9 PC 2007, below

With each CRAFTSMAN arc welder, you get 5 pounds of assorted welding electrodes, wire brush, carbon electrode, electrode holder, two 15-foot cables, welding helmet and instructions. For use on single phase 220-230 volt, 60-cycle A.C. only. Check voltage, cycle, phase and capacity of your power line with your local power company before ordering.

\$18950
Cash
\$19.00 Down

A 300-ampere A.C. Arc Welder. (Shown at left.) The finest industrial welder we have ever sold. Extra heavy duty. Meets rigid requirements for professional use and production work. Will handle the work of factories, mills, foundries, welding shops, construction companies, etc., where much heavy work is to be repaired or fabricated.

Double spun glass insulation... varnished and baked coils... natural draft cooling... no fans... all metal cabinet... for long, dependable life. Thirty heats... actual welding current from 20 to 300 amps. Uses electrodes up to 1/4-inch. Approved code-type on-off switch. Stub wire leads for A.C. connection. Cabinet 37x23x21 in. deep. Smooth running casters. Max. line draw 65 amps; max. K.W. 8.2; max. K.V.A. 14.3; max. open circuit secondary voltage 94.

99 PCM 2015—Shipping wt. 330 lbs. **\$189.50**

\$13950
Cash
\$14.00 Down

B 200-ampere A.C. Arc Welder. (Not illustrated.) Similar to 300-amp. size in appearance. Made to take steady, continuous service in garages, factories, mills, body and welding shops, etc. Recommended for repair or production work. Gives maximum heat at the arc with minimum current consumption.

Double spun glass insulation... coils varnished and baked... all metal cabinet... natural draft cooling... practically impossible to burn out if used on correct current supply (220-230 volts). Eighteen heats from 20 to 200 amps, actual welding current. Uses electrodes up to 3/16-inch. Approved code-type on-off switch. Stub wire leads for A.C. connections. Cabinet 33x20x21 in. deep. Smooth-running casters. Max. line draw 48.5 amps; max. K.W. 6.2; max. K.V.A. 10.7; max. open circuit secondary volts 94.

99 PCM 2012—Shipping wt. 260 lbs. **\$139.50**

CRAFTSMAN Arc Welder for rural power lines

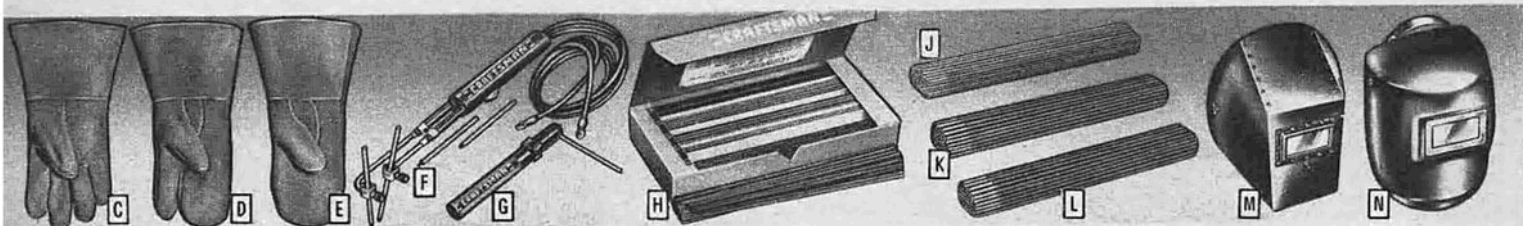
\$15950
Cash
\$16.00 Down

- Operates perfectly on R.E.A. and other rural power lines
- Ideal, too, for production work in city industrial shops
- Just plug it in... it's ready to use! All the necessary accessories, heavy 3-wire primary cable, polarized plug and receptacle are included
- Coils spun glass insulated, dipped in varnish, and baked for burnout protection
- 20 to 150-ampere actual welding current... adjustable to 1/2 ampere by hand wheel on top of unit
- Listed by Underwriters' Laboratories, Incorporated. Meets R.E.A. and N.E.M.A. standards

Here's an electric arc welder that works perfectly on R.E.A. and other rural power lines where local distribution transformer has a capacity of 3 K.V.A. or more. Also ideal for city industrial use. Safe-sealed all-metal cabinet... no exposed tips or selector switches! Visual current indicator. High power factor transformer requires no capacitors! Has approved code-type on-off switch. Uses electrodes from the smallest to 3/32-inch. Cuts, brazes, and solders all thicknesses of metals. For even more applications and finer work, use this welder with Twin Carbon Torch, 9 PC 2007,

which is shown below. Size 18 1/2 x 26 x 38 1/2 in. high. Maximum line draw 37 amps. at 230 volt input; maximum K.W. 5.4; output 150 amps. at 30 arc volts; maximum open circuit voltage 60. With two work cables (12-ft. ground cable and 18-ft. electrode cable); assorted electrodes; electrode holder; steel brush; helmet; and full instructions. For single-phase, 230-volt 60-cycle A.C. only. Check voltage, phase, cycle and capacity of your line with your power company before ordering.

99 PCM 2010—Shipping wt. 350 lbs. **\$159.50**



WELDERS' NEEDS... Twin Carbon Torch... Electrodes... Gloves... Helmets

Welders' Gloves. Made of side split cowhide, one of the toughest work leathers. Soft and pliable because it's chrome-tanned. Wide throats; roomy construction; one-piece backs. Lining of backs is cotton fleece, well napped for comfort and insulation. Heavy gauntlet cuffs, also lined. Strongly stitched; wear seams welded for extra durability. Large size only. Shpg. wt. 1 lb. 2 oz.

C 33PC3252—Five-finger glove.....\$2.59

D 33PC3251—One-finger mitten.....\$2.39

E 33PC3250—Full mitten style.....\$2.29

F CRAFTSMAN Twin Carbon Torch. Industrial type. Increases usefulness of your welder. For brazing, soldering, heating, etc., on any A.C. arc welder. Light weight; perfectly balanced. Length 15 1/4 inches. Shipping weight 4 lbs. 6 oz. 9 PC 2007..... **\$14.95**

Cored Carbons for twin torches.

Cat. no.	Size	Shpg. wt.	10 for
9PC2020	3/8 x 6 in.	10 oz.	\$1.00
9PC2021	1/2 x 6 in.	12 oz.	1.20
9PC2022	3/4 x 6 in.	1 lb.	1.50

G CRAFTSMAN Electrode Holder. Fully insulated. Light weight. Rods quickly changed. For welders with capacity of 300 amperes or smaller. Length 9 inches. 9 PC 2006—Shpg. wt. 1 lb. **\$3.19**

H Electrode Assortment. Handy 20-pound assortment (about 380 rods). Includes sizes and types for most general purpose welding jobs. For use with A.C. or D.C. welders (D.C. reverse polarity). Assortment includes: Rods for mild steel welding: 2 lbs. 3/32-inch rods; 4 1/2 lbs. 1/8-inch rods; 4 1/2 lbs. 3/32-inch rods. Rods for cast iron welding: 4 1/2 lbs. 1/8-inch rods. For hard surfacing: 4 1/2 lbs. 1/8-inch rods. Shpg. wt. 22 lbs. for complete assortment. 99 PC 02024..... **\$5.25**

CRAFTSMAN Welding Electrodes. Individual types. Special flux-coated for use on all A.C. or D.C. (D.C. reverse polarity) welders. Easy striking; assure minimum spatter loss and easy slag removal. Shipping weights: 5 pounds, 5 pounds 12 ounces; 25 pounds, 29 pounds. Please order by catalog number and state size needed.

J 9PC2003—General purpose types for use on mild steel. State size.

Size	5 lbs.	5 lbs. 12 oz.	25 lbs.
3/32-in.	\$1.39	\$0.98	\$0.95
1/8-in.	6.49	4.59	4.49
3/16-in.			4.19

K 9PC2055—Electrodes recommended for use on cast iron. State size.

Size	5 lbs.	5 lbs. 12 oz.	25 lbs.
3/32-in.	\$1.49	\$1.09	\$0.98
1/8-in.	6.89	4.95	4.59
3/16-in.			4.49

L 9PC2004—Electrodes recommended for hard surfacing use. State size.

Size	5 lbs.	5 lbs. 12 oz.	25 lbs.
1/8-in.	\$2.79	\$2.59	\$2.39
3/16-in.	13.25	12.25	11.25

Industrial Welding Helmets. Tough, vulcanized, shockproof fiber. Adjusts to fit head size. Can be thrown back without removing from head. Replaceable cover and filter glass included.

M Fabricated construction. Positive stop joints hold helmet in welding or in "up" position. Glass holder. 9 PC 1326—Shpg. wt. 2 lbs. 8 oz. **\$3.40**

N One-piece construction. Outside friction joint permits adjusting helmet for free-floating action. Bakelite glass holder. State choice of No. 10 or No. 12 colored glass filter plate. 9 PC 1325—Shpg. wt. 2 lbs. 6 oz. **\$8.39**

Extra Filter Plates and Cover Glass. Not illustrated. For arc welding use. Size 2x4 1/2 inches. Fit almost all helmets. Shipping weight each 5 oz.

9PC1327—No. 10 Shade Filter Plate. For 75 to 250-amp. welding..... **85c**

9PC1328—No. 12 Shade Filter Plate. For 250-amp. or greater welding..... **85c**

9 PC 1329—Clear Cover Glass..... **6c**

CRAFTSMAN OXY-ACETYLENE WELDERS . . . Only \$7.00 down on Easy Terms. Very easy to operate . . . Complete Welders' Handbook included

8 reasons why you can be sure of extra safety and extra quality

- (1) Tested and approved by Underwriters' Laboratories, Inc.
- (2) Approved by Associated Factory Mutual Insurance Company.
- (3) Tested and approved by Sears own testing laboratories.
- (4) Every part individually tested at factory before shipment.
- (5) All parts ground and hand fitted to eliminate leaks.
- (6) Regulators have patented safety pressure relief devices.
- (7) Exclusive balanced pressure non-flash mixer, beyond head of torch and outside of torch handle, for safety.
- (8) All parts which contact gas are solid brass or bronze.

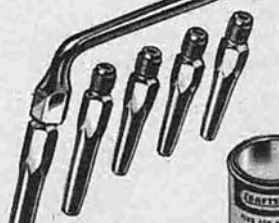
Real super quality built into every part! Triple tested! Designed for extra heavy duty professional use. Made by America's leading manufacturer of welding equipment. No wonder this outfit is used in so many professional welding shops!

Farmers—with our Welders' Handbook (which is included with outfit) and a little practice you can do professional type welding for yourself and for your neighbors. You'll find that this outfit will pay for itself many times over! Oxygen and acetylene gas can be bought almost everywhere—see classified section of your telephone directory.

Heavy duty construction. 17½-inch bronze non-flash torch with mixer and 6-inch gooseneck. Gooseneck is bronze drop forging—will not bend. Forged bronze-bodied regulators have 2 pressure gauges with steel cases—0 to 80 and 0 to 3,000-pound oxygen regulator; 0 to 80 and 0 to 500-pound acetylene regulator.

With five wide-range tips (AA-1, AA-2, AA-3, AA-4 and AA-5) as described below; two 12½-foot lengths of ¼-inch high pressure hose, tested to 800 pounds per square inch; assorted welding rods; flux; lighter; 2 wrenches; 50-mm. professional welders' goggles and 224-page Welders' Handbook. Welder may be used as cutting torch with 9PC5444 attachment below.

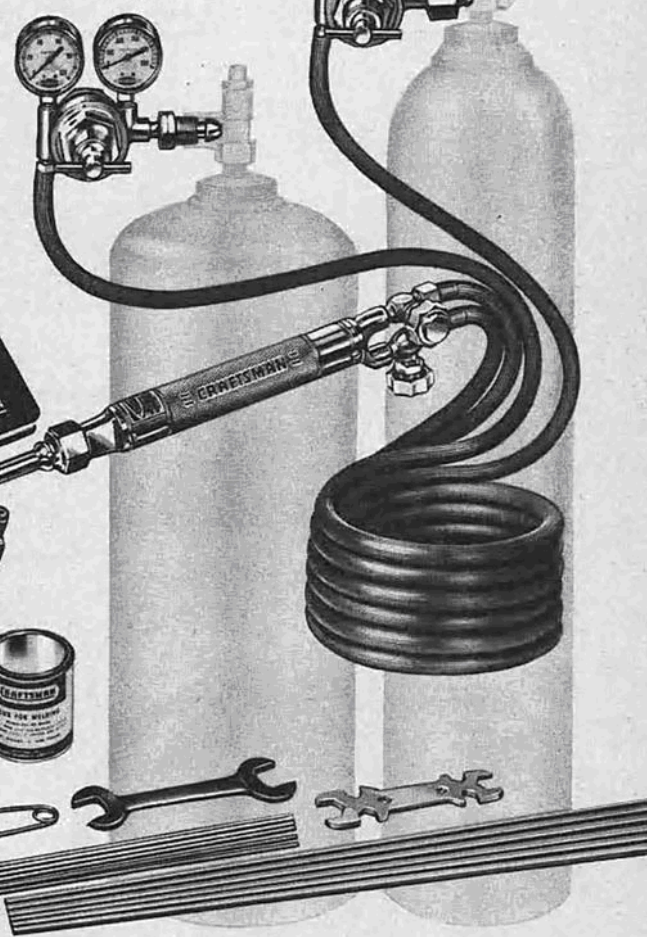
99 PC 05442—Shipping weight 28 pounds. \$68.00
9 PC 5410—Flux only. For all kinds of welding. Shipping weight 1 pound 3 ounces. 58c
9 PC 5411—224-page Welders' Handbook only. A helpful, easy-to-understand manual. Postpaid. \$2.75



\$68.00

Cash

\$7.00 down on
Sears Easy Terms

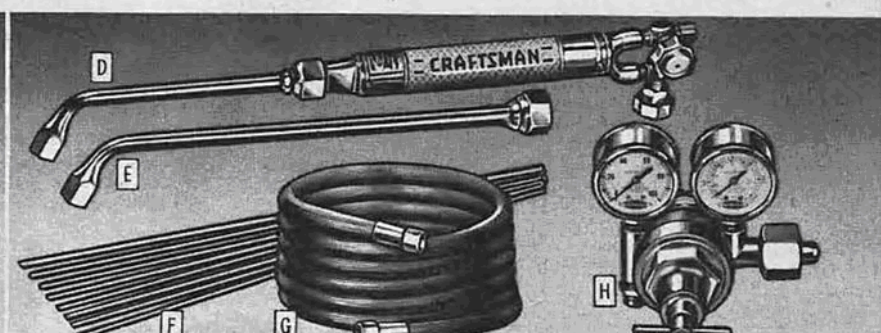
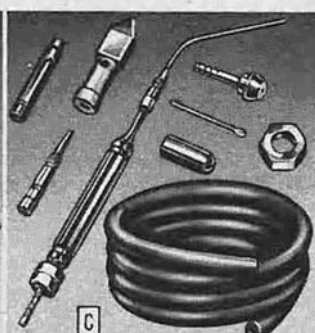
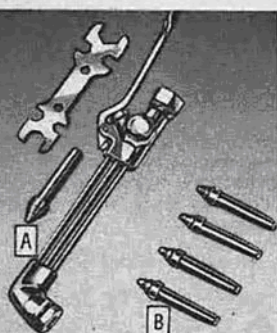
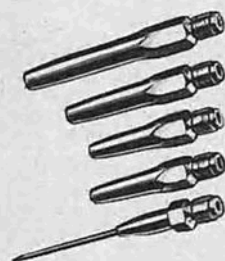


CRAFTSMAN Welding Tips

\$1.59 Illustrated at the left. Made of heavy, one-piece solid drawn copper, highly polished. Interchangeable. Shipping weight each 4 ounces. Please be sure to state size wanted when ordering.

Size	Capacity in.	Size	Capacity in.
AA-0	Soldering	AA-5	3/8 to 1/2
AA-1	1/8 to 1/4	AA-6	1/2 to 3/4
AA-2	1/4 to 3/8	AA-7	3/4 to 1
AA-3	3/8 to 1/2	AA-8	1 in. up
AA-4	1/2 to 3/4		

9 PC 5441. Each \$1.59



Cutting Attachment

A CRAFTSMAN. To be used with outfit 99PC05442 above. Replaces mixing attachment. Simply connect it to welding torch in place of mixer. Complete with one B-3 tip, wrench, and instructions. Shipping weight 3 lbs. 6 oz.
9 PC 5444. \$18.25

Cutting Tips

B CRAFTSMAN. For above cutting attachment. Shipping weight each 6 oz. State size wanted.

Size	Cuts steel	Size	Cuts steel
B-1	up to 3/8 in.	B-4	1 1/2 to 4 in.
B-2	3/8 to 1 1/2 in.	B-5	4 to 6 in.
B-3	1 1/2 to 1 3/4 in.		

9 PC 5447. Each \$2.49

Heating-Brazing Set

C CRAFTSMAN. Professional soldering equipment. Use with Prest-O-Lite cylinders to solder, braze, burn paint, etc. This outfit operates on acetylene only, and requires pressures up to 4 pounds for largest tip. Not for use in connection with oxygen or air pressure. Substantially and accurately made . . . will last for years if properly used.

Outfit consists of: handle; 3 heating tips; soldering copper; paint burning tip; tank connection, tip cleaner; 5 feet of rubber hose, and easy-to-understand instructions for using. Complete—no extras to buy. Shipping weight 2 pounds.
9 PC 5446. \$6.50

CRAFTSMAN Oxy-Acetylene Welding Parts and Accessories

D Model A Welding Torch. 17½ inches long. Bronze non-flash torch with 6-inch gooseneck mixer. Will cut steel with 9PC5444 cutting attachment listed at left.
9 PC 5429—Shpg. wt. 3 lbs. \$16.75

E 12-inch Mixing Chamber. A necessary attachment when using 9PC5441 copper welding tips, sizes AA-6, AA-7, or AA-8 listed above. Made of bronze. Gooseneck type.
9 PC 5443—Shpg. wt. 12 oz. \$6.50

F 90 assorted Welding Rods. For oxy-acetylene welding of bronze, cast iron, aluminum and mild steel, covering majority of welding applications. Four 1/2x18-in. and four 3/16x18-in. Tobin bronze rods; thirty 3/32x18-in., twenty-two 1/8x18-in., twelve 1/16x18-in. and eight 1/4x18-in. mild steel rods; four 3/16x18-in. drawn aluminum rods; seven 1/4x24-in. cast iron rods.
9 PC 5440—Shpg. wt. 10 lbs. 8 oz. \$4.00

G 1/4-inch Oxygen Hose. With necessary connections. State length wanted.
9 PC 5437—12½-ft. Shpg. wt. 1 lb. 13 oz. \$1.80
25-ft. Shipping weight 4 pounds. \$2.90

H 1/4-inch Acetylene Hose. With necessary connections. State length wanted.
9 PC 5438—12½-ft. Shpg. wt. 1 lb. 13 oz. \$1.80
25-ft. Shipping weight 4 pounds. \$2.90

Oxygen Regulator. 0 to 80 and 0 to 3,000-lb. gauges. Guaranteed accurate.
9 PC 5430—Shipping weight 4 lbs. \$17.75

Acetylene Regulator. 0 to 80 and 0 to 500-lb. gauges. Guaranteed accurate.
9 PC 5431—Shipping weight 4 lbs. \$16.25

9 PC 5413—Adapter for Airco, Commercial or Searchlight tanks. Shpg. wt. 5 oz. 1.50

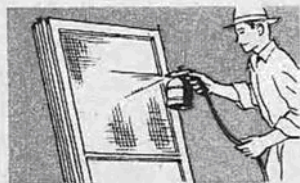
9 PC 5414—Adapter for Prest-O-Lite auto lighting tanks. Shpg. wt. 5 oz. 1.75

Actual timing tests prove...

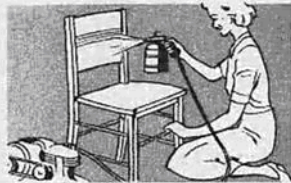
You can paint 3 to 10 times faster with a **CRAFTSMAN** Paint Sprayer

Yes, here's real proof! Not just claims—but the results of many actual test comparisons of the time it took to apply one coat of paint with a brush, or with this 1/4-H.P. sprayer. Compare the figures below yourself.

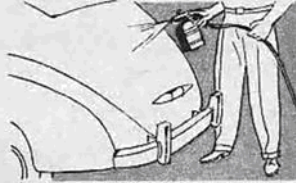
Notice that the sprayer painted 3 to 6 times faster! Similar tests showed that the larger sprayers on the opposite page will paint 7 to 10 times faster! And remember—you can do a much better job with a sprayer, too.



Painting a window screen



Painting a chair



Painting a car



Painting a 50x70-ft. barn

Brush:	Spray:
15 to 30 minutes	3 to 6 minutes

Brush:	Spray:
30 to 50 minutes	5 to 10 minutes

Brush:	Spray:
3 to 4 hours	1/2 to 1 hour

Brush:	Spray:
5 to 6 days	1 1/2 to 2 days

The complete outfit . . . only \$5.00 down!

See page 40 for Easy Terms

CRAFTSMAN 1/4-H.P. piston-type Sprayer

• 30 pounds working pressure . . . 2 1/2 cubic feet free air displacement

\$49.50
Cash
Complete
\$5.00 Down

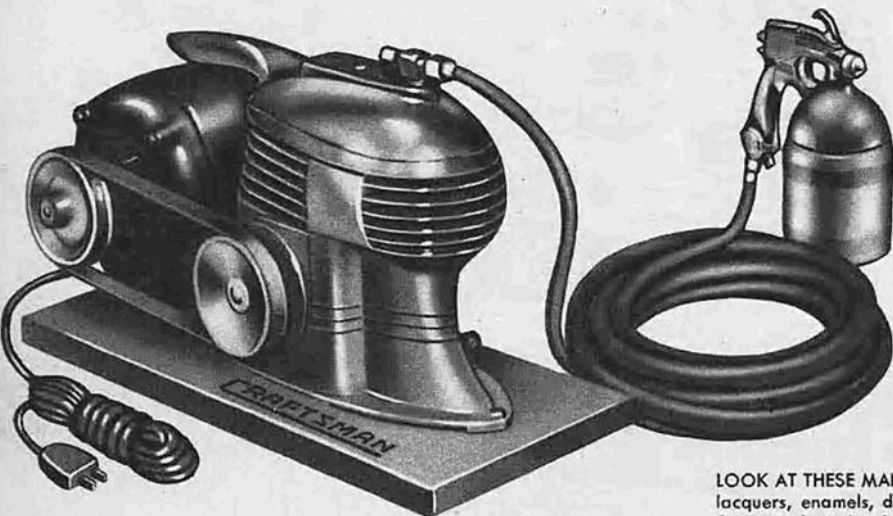
We know of no other paint sprayer in this price range anywhere which compares with this great CRAFTSMAN Sprayer! Has a piston-type compressor like big commercial types. You'll be amazed how much easier, faster and better you can paint. No bothering with open cans of paint! No dipping! No tiresome stroking with a brush! Just hold the spray gun in your hand—and let power do the work! Gives a beautiful smooth finish, with no brush marks. Fills cracks, crevices and uneven places. Ample capacity for home use and for general maintenance around farms, factories, buildings, stores, etc.

Finest aluminum alloy piston and connecting rod. Cylinder bored and honed to assure longer life. Crankshaft carefully counterbalanced for exceptionally smooth and quiet operation. 2-inch bore; 1 1/2-inch stroke. Built-in safety valve. Strong steel base 20 1/2 x 8 1/2 in.

The gun is pressure feed, internal mix bleeder type with built-in oil and moisture filter in handle. One-quart aluminum paint container; fluid tip and 3 nozzles (one fan spray; one round spray; one 45-degree angle); 15 feet of 3/4-inch inside diameter rubber hose. 1/4-H.P. motor for 110-120 volt 60 cycle A.C. With complete instructions.

99 PC 01842—With motor. Shpg. wt. 52 lbs. \$49.50
99 PC 01843—Without motor. Use 1750 R.P.M. motor, 1/4 H.P. or larger. Shpg. wt. 28 lbs. \$35.95

LOOK AT THESE MANY USES! You can use a CRAFTSMAN Sprayer for spraying paints, lacquers, enamels, disinfectants, insecticides, dyes, water colors, etc. May also be used for artists' air brushes; for spraying flowers and crops; for many types of cleaning, moth-proofing, etc.; and even for inflating tires with tire chuck on opposite page.



CRAFTSMAN 1/4-H.P. Diaphragm-type Sprayer

\$40.50
Cash
Complete
\$4.50 down

• Working pressure 30 lbs. . . has 2 1/2 cubic feet free air displacement.

A well made, dependable sprayer at a low price. Compressor diaphragm is 4 inches in diameter, has a 1/2-inch stroke. Well balanced to reduce vibration. Equipped with long-life bronze bearings. Diaphragm will last over 400 hours of operation—easily replaced.

Built-in safety valve. Compressor is mounted on 13 1/4 x 8 1/2-inch steel base fitted with rubber bumpers. Aluminum bleeder type gun with moisture filter and 1-quart aluminum cup. 3 nozzles (round, fan, and 45-degree). 15 ft. of 3/4-in. inside diam. air hose, connections.

Complete with 1/4 H.P. 1750 R.P.M. motor for 110-120 volt 60-cycle A.C.; cord and plug.

99 PC 01844—CRAFTSMAN Sprayer complete with motor. Shipping weight 45 lbs. . . . \$40.50

99 PC 01846—CRAFTSMAN Sprayer without motor. Shipping weight 21 lbs. \$26.95

9 PC 1880—Replacement Diaphragm for above sprayer. Shipping wt. 3 oz. 89c

3-gallon Paint Tank for big spray jobs

\$25.50
Cash
\$3.00 Down

For use on big painting jobs. Permits you to spray for long periods without refilling. Paint cup is removed and material hose carries paint from tank directly to gun.

Strong dome-shaped, cast iron cover; firmly secured by heavy wing nuts. Safety valve, pressure gauge, and air regulator for regulating paint pressure, are all mounted on cover. Maximum working pressure, 50 lbs. Heavily galvanized sheet steel body. Combination carrying handle and suspension hook for hanging tank on ladder. 15 feet of 3/8-in. air hose, 15 feet of 3/4-in. material hose.

99 PC 01870—Shipping weight 21 pounds. \$25.50

99 PC 01871—Same as above, but without pressure gauge and air regulator. Shipping weight 19 pounds. \$21.75



CRAFTSMAN PAINT SPRAYERS . . . 1/3 and 3/4-H.P. for greater capacity

Equipped with precision ball bearings for extra smooth and quiet operation



\$77.95
Cash
Complete
\$8.00 Down



\$205.50
Cash
Complete
\$21.00 Down

CRAFTSMAN 1/3-H.P. piston-type Sprayer

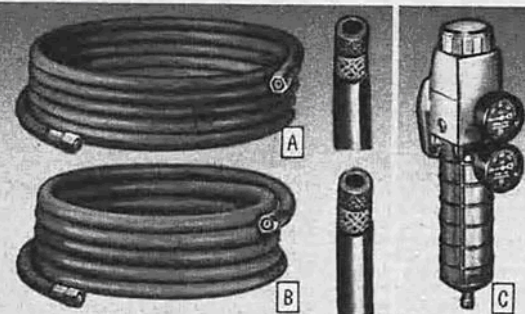
• Has 35 pounds working pressure . . . 4.7 cubic feet of free air displacement. An entirely new post-war design. Tremendously improved! Exclusive with Sears. We sincerely believe it's the greatest 1/3-H.P. sprayer value in America! Easily worth the difference in price over 1/4-H.P. sprayers because you get greater power, greater capacity, faster and better spraying, and ball bearing construction.

Finest 1/3-H.P. sprayer we've ever sold! Amazingly smooth and quiet in operation because of the perfect counterbalancing and ball bearing construction. Finest aluminum alloy pistons. Reamed and honed cylinder walls. Efficient filters keep out dust and dirt. 2 1/4-in. bore; 1 1/2-in. stroke. Intake threaded for use as vacuum pump. Combination oil level gauge and filler plug. 19 3/4 x 8 3/4-in. steel base with casters. Carrying handle. With 9PC1860 spray gun (described below), 3 nozzles, 15 ft. 1/2-in. inside diameter hose (same as 9PC1875 below). 1/3-H.P. capacitor type 1750 R.P.M. motor for 110-120 volt 60-cycle A.C. Instructions. 99PC01850—With motor. Shipping weight 65 pounds. \$77.95
99PC01851—Without motor. Use 1750 R.P.M. motor, 1/3-H.P. capacitor type or larger. Shipping weight 35 pounds. \$57.95

CRAFTSMAN 3/4-H.P. twin-piston Paint Sprayer

• Has over 40 pounds working pressure . . . 9 cubic feet free air displacement. The finest twin sprayer we've ever sold! Exclusive with Sears! Extra heavy duty. Will give superb performance even on tough industrial jobs. Extra capacity. Extra power. Perfect balance. Ball bearings make it a marvel of smooth, quiet operation. Much better and faster spraying because it has two compressor units.

Finest aluminum alloy pistons. Reamed and honed cylinder walls assure longer life. 2 1/4-inch bore; 1 1/2-inch stroke. Crank case vent and air intake have efficient filters to keep out dust and dirt. Air intake threaded for use as vacuum pump. Pressure gauge shows operating pressure. Built-in safety valve. Combination oil level gauge and filler plug. Sturdy 20 1/2 x 23 1/2-inch steel trailer with ball bearing 10-inch wheels and 10x2.75 inch semi-pneumatic rubber tires. Plenty of room in trailer for hose, guns, etc. Chromium plated steel handle. With 9PC1862 spray gun (below), 3 nozzles, and 25 ft. 5/8-in. inside diam. hose (same as 9PC1876 below). 3/4-H.P. capacitor, single phase, ball bearing motor for 115-230 volt 60-cycle A.C. Height, over all, 18 1/4 inches. Length (including handle) 42 1/4 inches. 99 PCM 1852—With motor. Shipping weight 165 pounds. \$205.50



CRAFTSMAN Air Hose

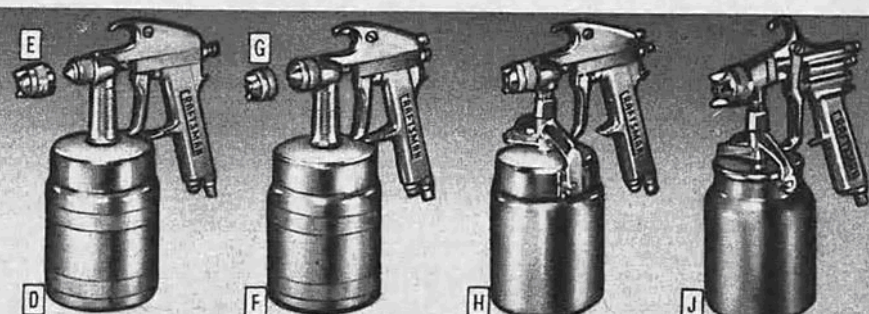
A Our finest quality. Neoprene cover resists oil, abrasion, weather, etc. Special rubber inner tube not affected by oil and similar solvents. Reinforced with rayon cord. Maximum working pressure, 250 pounds. With brass couplings. 9PC1875—15-foot length; 1/2-inch inside diameter. Shipping weight 1 pound 12 ounces. \$1.69
9PC1876—25-foot length; 1/2-inch inside diameter. Shipping weight 4 pounds 8 ounces. 2.69
9PC1878—Double Male Coupling connects lengths of air hose. Shpg. wt. 3 oz. Fits hose or sprayers shown. 17c
9PC1879—Tire Chuck. Male screw-in type. Fits couplings of air hose or sprayers shown. Shpg. wt. 3 oz. 35c

CRAFTSMAN Material Hose

B Special rubber inner tube for conducting lacquer, paint, varnish, lacquer, thinners, carbon tetrachloride, and other highly volatile solvents. Smooth heavy neoprene rubber cover. Reinforced with rayon cord. Maximum working pressure, 225 pounds. Complete with brass couplings. 9PC1877—15-foot length; 1/2-inch inside diameter. Shipping weight 3 pounds 4 ounces. \$2.69

CRAFTSMAN Air Transformer

C For use with any gun at right. Removes moisture, oil and foreign matter from incoming air; regulates leaving air to desired pressure. Leak-proof valve for draining. Filter easily cleaned. Pressure gauges indicate main line and regulated air pressures. Outlet has hose connection. Inlet threaded for 3/4-inch pipe; bracket for wall mounting. 9PC1866—Shipping weight 5 pounds. \$9.25



CRAFTSMAN Utility Spray Gun

D Use with 1/4 and 1/3-H.P. compressors. Pressures from 25 to 50 lbs. at 1 to 3 1/2 cu. ft. per minute. For general maintenance. Internal mix; bleeder type permits direct connection to air compressor. Do not use on air line. Pressure feed for spraying heavy bodied paints. Oil and moisture filter in handle. 1-qt. aluminum cup, 3 nozzles; fan pattern for flat surfaces, round pattern for small surfaces, 45° angle for ceiling, etc. Instructions. 9PC1860—Shipping weight 3 pounds. \$10.25
E CRAFTSMAN Conversion Kit. To convert 9PC1860 gun to external mix unit. Best for spraying fast-drying materials. Pattern shape easily changed. Easily attached. 9PC1861—Shipping weight 6 ounces. \$3.59

CRAFTSMAN All-purpose Spray Gun

F For use with 1/2 or 3/4-H.P. air compressors. Pressures from 25 to 50 lbs. at 2 1/2 to 5 1/2 cu. ft. per minute. A heavy duty bleeder type gun with large bronze spray head. Large air nozzles for faster spraying. Micrometer controls for both air and paint for best mixture. Filter in handle. 1-qt. aluminum cup. Three nozzles. For direct compressor use; not for use with air line. 9PC1862—Shipping weight 3 lbs. 4 oz. \$12.50
G CRAFTSMAN Conversion Kit. To make 9PC1862 gun an external mix unit. Spray pattern easily changed by air control at rear of gun. 9PC1863—Shipping weight 6 ounces. \$2.95

CRAFTSMAN Light production Spray Gun

H Heavy duty, quality suction-feed spray gun for light production industrial service on air line pressures from 25 to 90 pounds at 4 to 10 cubic feet per minute. Large bronze spray head. Non-bleeder type, with air valve to reduce air consumption. External mix nozzle and micrometer paint and air controls at rear of gun permit use with all materials. Easy adjustment of spray pattern. Lightweight aluminum body. 1-qt. clamp-on type aluminum cup. Built-in oil and moisture filter. Complete cup assembly easily removed by loosening one nut to permit use with paint tank. For air line use; not direct compressor connection. Instructions. 9PC1864—Shipping weight 3 pounds 8 oz. \$16.50

CRAFTSMAN High speed production Gun

J The finest paint spray gun we've ever sold! Latest design. Extra heavy duty. Precision construction. Suction, non-bleeder type for air line pressures from 25 to 90 pounds at 5 to 14 cubic feet per minute. Large, replaceable bronze spray head. One piece body, chrome plated. External-mix air nozzle sprays both light and heavy paints, lacquers and enamels and other fast-drying materials. Easy adjustment of spray pattern and speed of paint flow. Easy to clean. Filter in handle. 1-qt. aluminum clamp-on can. Loosening one nut removes cup assembly for paint tank use. For air line use; not direct compressor connection. Instructions. 9PC1865—Shipping weight 4 pounds 4 oz. \$24.95

CRAFTSMAN BENCH VISE

A great new design... Extra husky construction

- 1 New-type oval-shaped stops at ends of the handle to help prevent pinched fingers.
- 2 Hardened and tempered deep-knurled jaw faces are replaceable to permit longer vise life.
- 3 Cold rolled steel "U" beam completely covers the Acme threaded steel screw to protect it against dirt and filings. Helps maintain the exceptionally smooth and easy action.
- 4 Convenient new-type handle on swivel base eliminates the nuisance of a sliding bar.

\$1125 By far the finest vise of this type we've ever sold! You'll have an entirely new idea of vise quality when you see this superb new design and try its exceptionally smooth and easy action. Really a beauty to look at... and packed with rugged brute strength in every part. Body is strongly reinforced at all points of strain. All parts precision machined to such close tolerances that complete interchangeability is possible. Beam slides easily... fits snugly... prevents jaw wobble. Acme threaded steel screw has 6 threads per inch. Swivel base turns full 360 degrees... locks at any desired angle. Gray enamel finish; jaws, beam, anvil and handles have highly polished finish.

99 PC 05176—3½-inch jaws open 5 inches. Shipping weight 25 pounds. Mailable... \$11.25
99 PC 05169—4-inch jaws open 5 inches. Shipping weight 45 pounds. Mailable... \$12.75

DUNLAP Bench Vise... You'd expect to pay much more for this quality

- \$575**
- Replaceable oil tempered and hardened steel jaw faces; deeply knurled.
 - Has heavy U-shaped slide beam; smooth-working Acme threaded steel screw.
 - Swivel base with positive-locking 3-point contact... swivels left or right to 180°.

Don't be misled by Sears low price! You'd expect to pay much more for a rugged, well made vise like this. Husky semi-steel body is strongly reinforced at all points of strain. Oversize cold rolled steel beam fits snugly, yet slides easily; jaws won't wobble. Deep cut knurls in the jaw faces assure a firm grip. Base locks securely in any position. 3½-inch jaws open to 4½ inches. Durable red crackle finish. Actual weight 15¼ pounds.

99 PC 05244—Shipping weight 17 pounds. Mailable... \$5.75

CRAFTSMAN Industrial Machinists' Vises

\$1625 These vises are so well made, we can positively guarantee them for 10 years against defects in materials and workmanship.

Especially constructed for heaviest machine shop work. Semi-steel construction for greatest strength, reinforced at all points of strain. Alloy steel facings on jaws are securely welded in to avoid becoming loose, lost, or broken. All parts accurately machined for a snug fit, and to provide complete interchangeability. Heavy milled beam fits snugly; slides smoothly in double broached rectangular hole through body. Machined base insures smooth bearing surface; jaws are always parallel with work bench. Head and collar bearings are machined to avoid screw wear and to eliminate lost motion. Screw and handle are made of high carbon alloy steel for added strength. The swivel base model has 3-point contact; locks securely in any position desired; turns full 360 degrees. Actual weights are same as shipping weights. Sizes weighing over 70 pounds not mailable.

A CRAFTSMAN Solid Base Machinists' Vises

Cat. no.	Jaws	Open	Shpg. wt.	Each
99 PC 05180	3½-inch	5 inches	31 lbs.	\$16.25
99 PC 05181	4-inch	6 inches	45 lbs.	18.50
99 PC 05182	4½-inch	6½ inches	60 lbs.	22.50
99 PC 05183	5-inch	7½ inches	77 lbs.	28.95

B CRAFTSMAN Swivel Base Machinists' Vises

Cat. no.	Jaws	Open	Shpg. wt.	Each
99 PC 05184	3-inch	4 inches	27 lbs.	\$18.95
99 PC 05185	3½-inch	5 inches	38 lbs.	21.95
99 PC 05186	4-inch	6 inches	51 lbs.	24.50
99 PC 05187	4½-inch	6½ inches	66 lbs.	28.95
99 PC 05188	5-inch	7½ inches	89 lbs.	43.50

\$1895

3-inch Swivel Base

Clamp Vise

\$159

C DUNLAP. New! A splendid little vise for the home, shop or farm. Ideal for the repair man who has to carry tools around on the job... or for anyone who works in limited space. Excellent for the model maker, etc. Easily clamps to bench or table up to 2 in. thick. Twin-guide rod construction and clean-cut screw assure smooth action. Jaws and body are made of cast steel. Machined jaws meet squarely and give a firm grip. Jaws are 1½ in. wide... open 2 in. Over-all height (with clamp closed) about 6 in. Over-all width (with jaws closed) about 4 in. Shpg. wt. 2 lbs. 8 oz. 9 PC 5245... \$1.59

High quality Anvils

\$1995

D Prices reduced on general purpose anvils for shop or farm. Tool steel face; hardened, tempered and highly polished. Horn covered with, and its extremity made of, tough, untempered steel. Actual weights given are same as shipping weights.

Catalog number	Wt., lbs.	Face, inches	Hardie hole, inches	Price each
99 PCM 5270	70	3½x11	¾ in.	\$19.95
99 PCM 5271	100	3½x12½	¾ in.	23.45
99 PCM 5272	130	3½x13½	1 in.	30.95
99 PCM 5273	150	4 x14½	1 in.	35.95

E Straight Hardies. Made of forged tool steel, tempered and hardened. Sharpened bit; square shank. State size. Shank... ¾-inch 1½-inch... 1-inch... Shpg. wt. 1 lb. 4 oz. 2 lbs. 2 lbs. 8 oz. 9 PC 5314... \$1.10

DUNLAP



78-pc. Stencil Set

F Brass letters, figures and period; also brush and ink. Interlocking; join to form words desired. Sizes given in listing below are size of letters. Please be sure to state size wanted when ordering.

Size... ½-in. 1-in. 1½-in. 2-in.
Shpg. wt. 8 oz. 12 oz. 14 oz. 1 lb.
9 PC 3785—Set... \$2.65 \$2.98 \$3.79 \$5.35
9 PC 3787—Stencil Brush. Shipping weight 2 ounces... Each 49c
9 PC 3788—Black Stencil Ink. Shpg. wt. 1 lb. 4 oz. 6-ounce cake 79c

Industrial Stencil Supplies

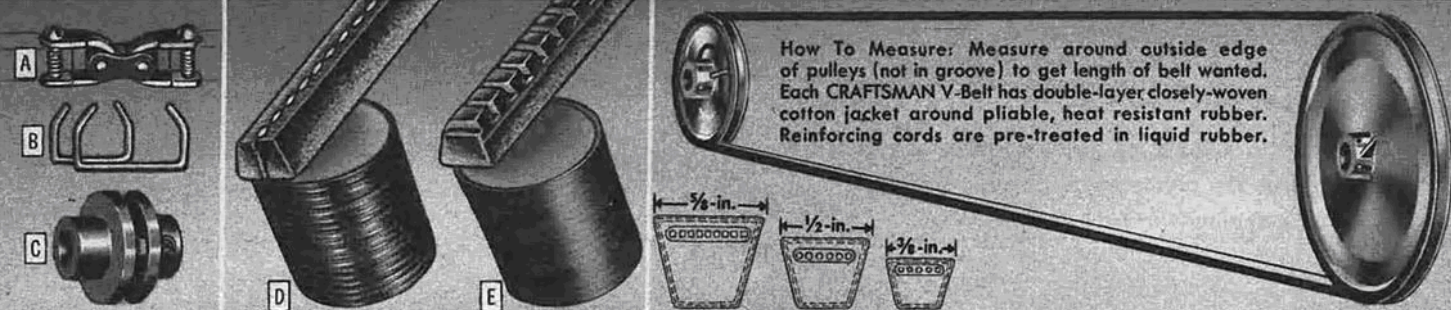
G Stencil Brush. Best quality. Heavy black China bristles set in rubber.
9 PC 3780—Please state size wanted.
1½-in. bristles. Shpg. wt. 8 oz. \$1.29
1½-in. bristles. Shpg. wt. 9 oz. \$1.75
H Industrial Stencil Marking Pot. Sheet metal. Revolving wood ball gives an even distribution of ink. Top 5 inches; bottom 4¾ inches; depth 2¾ inches; handle 4 inches.
9 PC 3781—Shipping weight 12 oz. 98c
I Industrial Black Stencil Ink. 1-qt. bottle.
9 PC 3782—Shipping wt. 5 lbs. \$1.09
J 3-piece Stencil Set. 1½-inch stencil brush; ink pot; 1 quart stencil ink, as above.
9 PC 3786—Shpg. wt. 5 lbs. 12 oz. \$3.25

Bench Screw with Handle

K Just the thing for replacement in old, worn-out bench vises, or making new wood workers' vises, fruit presses, etc. Strong steel screw; Acme-cut threads. Standard 15½-in. length. Smooth, tough 14-inch hardwood handle. Made in two sizes as listed.
9 PC 6662—Please be sure to state size wanted when ordering.
1-inch diameter screw. Shpg. wt. 5 lbs. 8 oz. \$1.49
1½-inch diameter screw. Shpg. wt. 6 lbs. 10 oz. 1.65

CRAFTSMAN Woodworker's Vise

L Professional quality. Heavy semi-steel front and back jaws with smooth ground faces. 10-inch jaws open to 10 inches. Front jaw has adjustable bench stop; provided with holes for fastening wood face to jaws if desired. Acme-threaded steel screw.
99 PC 05200—Shpg. wt. 20 lbs. \$8.95
Quick-acting Woodworkers' Vise. Similar to above, but half turn of handle disengages screw and permits jaw to slide back and forth freely. Turn in opposite direction again engages screw.
99 PC 05201—Shpg. wt. 20 lbs. \$10.75



How To Measure: Measure around outside edge of pulleys (not in groove) to get length of belt wanted. Each CRAFTSMAN V-Belt has double-layer closely-woven cotton jacket around pliable, heat resistant rubber. Reinforcing cords are pre-treated in liquid rubber.

CRAFTSMAN V-BELTS AND PULLEYS . . . exceptionally high quality

Steel V-Belt Couplers

A The ideal way to shorten old leather V-belts or couple together new ones. Coupler consists of roller chain link between two bails. Will not cause additional vibration. Simple to install. For $\frac{3}{8}$ -inch, $\frac{1}{2}$ -inch, or $\frac{3}{4}$ -inch V-belt.

9 PC 2842—Shpg. wt. 1 oz. . . Each 27c

Steel Wire V-Belt Hooks

B Simple to use. Just punch holes into belt, insert hook, and clinch. That's all there is to connecting V-belt section when you use these convenient wire belt hooks. Made of tough steel music wire; makes a safe, dependable connection. Shipping weight six 1 ounce.

9 PC 2847—State size wanted.

Small, for $\frac{3}{8}$ or $\frac{1}{2}$ -in. belt. 6 for. . . 7c
Large, for $\frac{3}{4}$ or $\frac{3}{2}$ -in. belt. 6 for. 10c

Flexible Coupling

C The ideal coupling to use where motor is connected directly to a machine. Flexible coupling connects motor and machine shafts, and allows for slight misalignment between them. It prevents the wear on the bearings which might result if a rigid coupling were used. Die cast construction. Accurately machined and well finished. Available for use with $\frac{3}{8}$, $\frac{1}{2}$, or $\frac{3}{4}$ -inch shafts. Please state bore size wanted.

9 PC 2840—Shpg. wt. 12 oz. . . . 62c

Plain leather V-Belt

D Use this fractional horsepower plain leather V-belt for rapid replacements. No need to remove machinery to replace belt. Made of two plies of tough oak-tanned leather cemented together; then sewn down the center. Steel wire hook included with every length.

9 PC 2777—Please state width and length wanted when ordering.
 $\frac{3}{8}$ -inch width. Shipping weight per foot 3 oz. . . . Per inch 2c
 $\frac{1}{2}$ -inch width. Shipping weight per foot 4 oz. . . . Per inch 2½c
 $\frac{3}{4}$ -inch width. Shipping weight per foot 5 oz. . . . Per inch 3½c

Notched leather V-Belt

E Strong, tough oak-tanned leather. Extremely flexible. Notches cut cross-wise in under surface give belt greater flexing ability and more contact with pulleys. For fractional horsepower. Heavy steel wire hook included with every length. Carefully measure length around outside of pulleys (not in grooves) to determine length needed.

9 PC 2778—Please state length and width desired when ordering.
 $\frac{3}{8}$ -inch width. Shipping weight per foot 3 oz. . . . Per inch . . . 3c
 $\frac{1}{2}$ -inch width. Shipping weight per foot 4 oz. . . . Per inch 4½c
9 PC 2779—¾-inch leather V-belt. As above, not notched. Shpg. wt. per ft. 3 oz. Per inch. 2½c

½-inch V-Belts

Correct size for most applications with V-pulleys, 2-in. diameter or larger.

Cat. no.	Length	Shpg. wt.	Each
9 PC 1622	22 in.	4 oz.	51c
9 PC 1624	24 in.	4 oz.	52c
9 PC 1625	25 in.	4 oz.	53c
9 PC 1626	26 in.	4 oz.	54c
9 PC 1628	28 in.	4 oz.	55c
9 PC 1629	29 in.	4 oz.	56c
9 PC 1630	30 in.	4 oz.	57c
9 PC 1631	31 in.	5 oz.	58c
9 PC 1632	32 in.	5 oz.	60c
9 PC 1633	33 in.	5 oz.	62c
9 PC 1634	34 in.	6 oz.	63c
9 PC 1635	35 in.	6 oz.	64c
9 PC 1636	36 in.	6 oz.	65c
9 PC 1637	37 in.	6 oz.	67c
9 PC 1638	38 in.	7 oz.	69c
9 PC 1639	39 in.	7 oz.	71c
9 PC 1640	40 in.	7 oz.	73c
9 PC 1641	41 in.	7 oz.	75c
9 PC 1642	42 in.	7 oz.	77c
9 PC 1643	43 in.	7 oz.	79c
9 PC 1644	44 in.	7 oz.	81c
9 PC 1645	45 in.	7 oz.	82c
9 PC 1646	46 in.	7 oz.	83c
9 PC 1647	47 in.	7 oz.	84c
9 PC 1648	48 in.	7 oz.	85c
9 PC 1650	50 in.	7 oz.	88c
9 PC 1651	51 in.	7 oz.	90c
9 PC 1652	52 in.	7 oz.	92c
9 PC 1654	54 in.	7 oz.	94c
9 PC 1656	56 in.	8 oz.	97c
9 PC 1658	58 in.	8 oz.	1.00
9 PC 1660	60 in.	8 oz.	1.03
9 PC 1662	62 in.	8 oz.	1.06
9 PC 1664	64 in.	8 oz.	1.09
9 PC 1666	66 in.	9 oz.	1.12
9 PC 1684	84 in.	10 oz.	1.39

¾-inch V-Belts

Correct size for use on drives over small diameter pulleys. Machines perform at top efficiency.

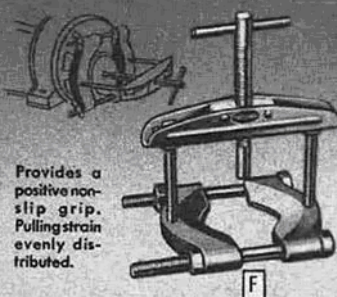
Cat. no.	Length	Shpg. wt.	Each
9 PC 1520	20 in.	4 oz.	49c
9 PC 1522	22 in.	4 oz.	50c
9 PC 1524	24 in.	4 oz.	52c
9 PC 1526	26 in.	4 oz.	53c
9 PC 1528	28 in.	4 oz.	54c
9 PC 1530	30 in.	4 oz.	55c
9 PC 1532	32 in.	4 oz.	57c
9 PC 1534	34 in.	4 oz.	60c
9 PC 1536	36 in.	4 oz.	63c
9 PC 1538	38 in.	4 oz.	65c

¾-inch V-Belts

Use for heavier drive over a minimum pulley diameter of 3 inches. Heavy duty.

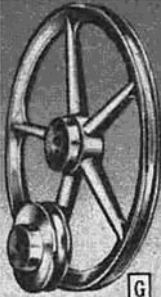
Cat. no.	Length	Shpg. wt.	Each
9 PC 1734	34 in.	5 oz.	79c
9 PC 1736	36 in.	5 oz.	83c
9 PC 1738	38 in.	5 oz.	87c
9 PC 1740	40 in.	6 oz.	92c
9 PC 1742	42 in.	6 oz.	98c
9 PC 1743	43 in.	8 oz.	1.02
9 PC 1744	44 in.	8 oz.	1.04
9 PC 1746	46 in.	10 oz.	1.06
9 PC 1750	50 in.	10 oz.	1.19
9 PC 1752	52 in.	11 oz.	1.25
9 PC 1754	54 in.	11 oz.	1.29
9 PC 1771	71 in.	14 oz.	1.65
9 PC 1778	78 in.	15 oz.	1.85
9 PC 1788	88 in.	1 lb. 2 oz.	2.05
9 PC 1793	93 in.	1 lb. 3 oz.	2.09

Be sure to order the correct size V-belt. See "How to Measure" at top of page

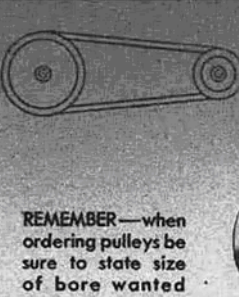


Provides a positive non-slip grip. Pulling strain evenly distributed.

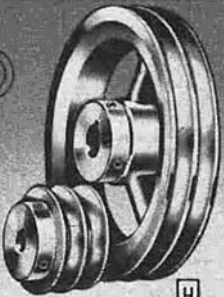
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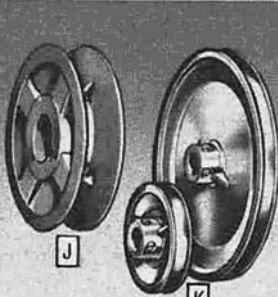
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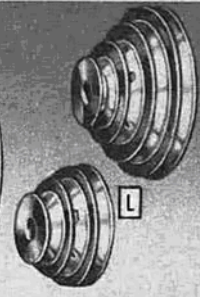
REMEMBER—when ordering pulleys be sure to state size of bore wanted



H



J



L

Pulley Remover

F CRAFTSMAN. An excellent sheave and pulley remover for removing small V-drive pulleys when frozen fast on electric motors or other power tool shafts, and for removing single or multiple drive sheaves. Fits single or multiple groove pulleys, gears, bearings, etc. Eliminates the need for pulling on outer flange, which often causes breakage or damage to pulley being removed. Clamps down in the V-groove of sheave or pulley and distributes the pulling strain evenly around a great part of the circumference. Assures a positive, non-slip grip. Capacity 1½ to 4½ inches. One of the handiest tools for home workshop or for the man who does set-up and mechanical repair work. Solves many service and maintenance operations. Strong steel construction. Shipping weight 4 pounds.

9 PC 4696 . . . \$2.59

CRAFTSMAN single-groove V-Pulleys

G Made of heavy cast iron, except 9 PC 2815 pulley which is made of pressed steel. Heavy duty; heavy and sturdy enough for production work in the shop, farm or household. Use to replace single V-belt pulleys on any type of electric motor or gas engine. Positive-grip grooves are expertly turned and bores are accurately reamed. True and smooth running. Have slotted-head set screw. Pulleys with ¾-inch or 1-inch bores have standard keyways. Grooves fit V-belts ¾-inch or 1-inch wide. Order by catalog number and please remember to state clearly the size of the bore which you require.

Cat. no.	Diam.	Bore, inch	Shpg. wt.	Each
9 PC 2880	1½ in.	¾	5 oz.	49c
9 PC 2881	2 in.	¾	6 oz.	54c
9 PC 2882	2½ in.	¾	9 oz.	65c
9 PC 2883	3 in.	¾	12 oz.	75c
9 PC 2884	4 in.	¾	1 lb.	95c
9 PC 2885	5 in.	¾	1 lb. 4 oz.	1.05
9 PC 2886	6 in.	¾	1 lb. 10 oz.	1.25
9 PC 2888	8 in.	¾	2 lbs. 4 oz.	1.69
9 PC 2810	10 in.	¾	3 lbs.	1.98
9 PC 2812	12 in.	¾	3 lbs. 13 oz.	2.59
9 PC 2815	15½ in.	¾	6 lbs. 5 oz.	3.75

CRAFTSMAN scientifically designed V-Pulleys

CRAFTSMAN V-Belt Pulleys are designed and manufactured to give you top working efficiency from your machines. Sides of belt grooves are machined smooth. Bores are reamed to exact size. Diameters given in table listings below refer to outer edge of pulleys.

CRAFTSMAN two-groove V-Pulleys

H Heavy cast iron. Standard keyways. Two hardened set screws. For ½-inch or ¾-inch belts. State bore size wanted.

Cat. no.	Diam.	Bore, inch	Shpg. wt.	Each
9 PC 2940	3 in.	¾	1 lb. 13 oz.	\$2.89
9 PC 2941	4 in.	¾	3 lbs.	3.59
9 PC 2942	5 in.	¾	3 lbs. 6 oz.	3.95
9 PC 2943	6 in.	¾	4 lbs.	4.75
9 PC 2944	8 in.	1	5 lbs. 4 oz.	5.75
9 PC 2945	10 in.	1	7 lbs.	6.75
9 PC 2946	12 in.	1	8 lbs. 10 oz.	8.00

CRAFTSMAN hubless V-Pulleys

J The hubless design permits use of pulleys side by side for multiple drives. Sturdily built of die cast metal. Have turned grooves and reamed bores. Two set screws in center of pulley groove lock pulley on shaft securely. For ¾ or 1-inch V-belts. State size bore wanted.

Cat. no.	Diam.	Bore, inch	Shpg. wt.	Each
9 PC 2901	2 in.	¾	6 oz.	39c
9 PC 2902	2½ in.	¾	9 oz.	45c
9 PC 2903	3 in.	¾	11 oz.	47c

CRAFTSMAN single-groove V-Pulleys

K Die cast metal. Two slotted-head set screws. Turned grooves and reamed bores. For ¾ or 1-inch V-belts, except 9 PC 2800 which is for ¾-inch belt only. State size bore wanted.

Cat. no.	Diam.	Bore, inch	Shpg. wt.	Each
9 PC 2800	1½ in.	¾	3 oz.	35c
9 PC 2801	2 in.	¾	5 oz.	39c
9 PC 2802	2½ in.	¾	6 oz.	49c
9 PC 2803	3 in.	¾	7 oz.	53c
9 PC 2804	4 in.	¾	10 oz.	59c
9 PC 2805	5 in.	¾	15 oz.	70c
9 PC 2806	6½ in.	¾	1 lb. 6 oz.	1.02

CRAFTSMAN Cone V-Pulleys

L Use in pairs for variable speed applications. Die cast metal. Turned grooves and reamed bores. Three and four-step. Two hardened slotted-head set screws lock pulley onto shaft. For ¾ or 1-inch V-belts; ¾, ½, or ¾-inch bore. State size bore wanted.

Cat. no.	Size	Diam., step, in.	Shpg. wt.	Each
9 PC 2788	3½ in.	3½, 2½, 2	1 lb.	93c
9 PC 2792	4 in.	4, 3½, 2½, 2	1 lb. 10 oz.	\$1.09
9 PC 2793	5 in.	5, 4, 3, 2	1 lb. 14 oz.	1.25

CHARTS AND TABLES

VALVE TAPPET WRENCH CHART

SIZE OF WRENCH OPENINGS NEEDED

Service Chart for 1930 to 1941 Cars

Make of Car	Model	Size Wrench				Make of Car	Model	Size Wrench			
		$\frac{3}{8} \times \frac{1}{16}$ in.	$\frac{1}{2} \times \frac{1}{16}$ in.	$\frac{9}{16} \times \frac{1}{16}$ in.	$\frac{5}{8} \times \frac{1}{16}$ in.			$\frac{3}{8} \times \frac{1}{16}$ in.	$\frac{1}{2} \times \frac{1}{16}$ in.	$\frac{9}{16} \times \frac{1}{16}$ in.	$\frac{5}{8} \times \frac{1}{16}$ in.
Auburn	1930-'34	2	2		1	6 and Std. 8 Adv. 8	1930-'34	2	2	1*	
Buick	1930-'41	1*				Ambdr. 8	1930-'34	1	1		
Cadillac	1930-'38	1*				All other 6 and 8 Lafayette	1941	1	1		
Chevrolet	1930-'41			1*			1934-'41			1*	
Chrysler	1930-'36						1934-'35			3	
	1937-'41	1	1				1936-'40			3	
DeSoto	1930-'34		3			Oldsmobile	1930-'39			3	
	1935-'36		3				1940-'41	1	1	3	
	1937-'41	1	1			Overland	1939			3	
Dodge	1930-'34		3			Packard	1930-'40			3	
	1935-'40		3				1941	1	1	3	
	1941	1	1			Pierce Arrow	1930-'37			2	1
Graham	1930-'41		3			Plymouth	1930-'40			3	
Hudson	1930-'41		2	1			1941	1	1	3	
Hupmobile, 6 & 8	1930-'36		2		1	Pontiac	1930-'41			3	
	1930-'36		3				1930-'36			3	
	1935-'36		3			Studebaker Dictator Comm., Pres.	1930-'33			2	1
	1938-'39		3			All Above Champion	1934-'38			2	1
Lafayette (Nash)	1934-'40		3				1939-'41			2	1
La Salle	1930-'38	1*				Stutz	1930-'36			2	1
Lincoln	1930-'37		3			Terraplane	1933-'39			2	1
Zephyr	1936-'37		3			Willys	1931-'40			2	1
							1941			3	

*with Screw Driver

*with Screw Driver

HEXAGON SOCKET TABLE

STANDARD SIZE OPENINGS

Size of Openings in Inches	S. A. E. Nuts & Bolts	U. S. S. Nuts	U. S. S. Cap Screw	Amer. Std.		Size of Openings in Inches	S. A. E. Nuts & Bolts	U. S. S. Nuts	U. S. S. Cap Screw	Amer. Std.	
				Nuts	Cap Screw					Nuts	Cap Screw
$\frac{1}{16}$						$\frac{1}{16}$					
$\frac{1}{8}$						$\frac{1}{8}$					
$\frac{3}{16}$						$\frac{3}{16}$					
$\frac{1}{4}$						$\frac{1}{4}$					
$\frac{5}{16}$						$\frac{5}{16}$					
$\frac{3}{8}$						$\frac{3}{8}$					
$\frac{7}{16}$						$\frac{7}{16}$					
$\frac{1}{2}$						$\frac{1}{2}$					
$\frac{9}{16}$						$\frac{9}{16}$					
$\frac{5}{8}$						$\frac{5}{8}$					
$\frac{11}{16}$						$\frac{11}{16}$					
$\frac{3}{4}$						$\frac{3}{4}$					
$\frac{7}{8}$						$\frac{7}{8}$					
1						1					

TAP DRILL SIZES

FOR 75% DEPTH OF THREAD

FRACTIONAL			MACH. SCREW		
Tap Size	Threads Per Inch	Use Drill	Tap Size	Threads Per Inch	Use Drill
$\frac{1}{16}$	40 N.S.	.38	0	80 N.F.	.36
$\frac{1}{8}$	24 N.S.	.26	1	64 N.C.	.53
$\frac{3}{16}$	20 N.C.	.7	1	72 N.F.	.53
$\frac{1}{4}$	28 N.F.	.3	2	56 N.C.	.50
$\frac{5}{16}$	18 N.C.	.17	2	64 N.F.	.50
$\frac{3}{8}$	24 N.F.	.17	3	48 N.C.	.47
$\frac{7}{16}$	16 N.C.	.16	3	56 N.F.	.45
$\frac{1}{2}$	24 N.F.	.16	4	36 N.S.	.44
$\frac{9}{16}$	14 N.C.	.16	4	40 N.C.	.43
$\frac{5}{8}$	20 N.F.	.16	4	48 N.F.	.42
$\frac{11}{16}$	13 N.C.	.16	5	40 N.C.	.38
$\frac{3}{4}$	20 N.F.	.16	5	44 N.F.	.37
$\frac{7}{8}$	12 N.C.	.16	6	32 N.C.	.36
1	18 N.F.	.16	6	40 N.F.	.33
$\frac{1}{8}$	11 N.C.	.16	8	32 N.C.	.29
$\frac{1}{4}$	18 N.F.	.16	8	36 N.F.	.29
$\frac{3}{8}$	11 N.S.	.16	10	24 N.C.	.25
$\frac{1}{2}$	16 N.S.	.16	10	32 N.F.	.21
$\frac{3}{4}$	10 N.C.	.16	12	24 N.C.	.16
$\frac{5}{8}$	16 N.F.	.16	12	28 N.F.	.14
$\frac{7}{8}$	10 N.S.	.16	14	20 N.S.	.10
1	9 N.C.	.16	14	24 N.S.	.7
$\frac{1}{16}$	9 N.S.	.16			
$\frac{1}{8}$	14 N.C.	.16			
$\frac{3}{16}$	7 N.C.	.16			
$\frac{1}{4}$	12 N.F.	.16			
$\frac{5}{16}$	7 N.C.	.16			
$\frac{3}{8}$	12 N.F.	.16			
$\frac{7}{16}$	6 N.C.	.16			
$\frac{1}{2}$	12 N.F.	.16			
$\frac{9}{16}$	6 N.C.	.16			
$\frac{5}{8}$	12 N.F.	.16			
$\frac{11}{16}$	5 N.S.	.16			
$\frac{3}{4}$	5 N.C.	.16			
$\frac{7}{8}$	5 N.S.	.16			
1	4 N.C.	.16			

TAPER PIPE TAP

$\frac{1}{8}$	27	.11
$\frac{3}{16}$	18	.16
$\frac{1}{4}$	18	.21
$\frac{5}{16}$	14	.25
$\frac{3}{8}$	14	.29
$\frac{7}{16}$	11	.32
$\frac{1}{2}$	11	.36
$\frac{9}{16}$	11	.40
$\frac{5}{8}$	8	.43
$\frac{11}{16}$	8	.46
$\frac{3}{4}$	8	.49
$\frac{7}{8}$	8	.52
1	8	.55

All sizes N.P.T. (American Std. Pipe Threads)

DECIMAL EQUIVALENT CHART

$\frac{1}{16}$.015625	$\frac{1}{32}$.03125	$\frac{1}{64}$.015625
$\frac{1}{8}$.125	$\frac{3}{16}$.1875	$\frac{1}{4}$.25
$\frac{5}{16}$.3125	$\frac{3}{8}$.375	$\frac{1}{2}$.5
$\frac{7}{16}$.4375	$\frac{5}{8}$.625	$\frac{3}{4}$.75
$\frac{1}{2}$.5	$\frac{7}{8}$.875	$\frac{15}{16}$.9375
$\frac{9}{16}$.5625	$\frac{1}{4}$.25	$\frac{1}{2}$.5
$\frac{5}{8}$.625	$\frac{3}{8}$.375	$\frac{1}{2}$.5
$\frac{3}{4}$.75	$\frac{1}{2}$.5	$\frac{3}{4}$.75
$\frac{7}{8}$.875	$\frac{3}{4}$.75	$\frac{7}{8}$.875
$\frac{15}{16}$.9375	$\frac{7}{8}$.875	$\frac{15}{16}$.9375
$\frac{1}{16}$.015625	$\frac{1}{32}$.03125	$\frac{1}{64}$.015625
$\frac{1}{8}$.125	$\frac{3}{16}$.1875	$\frac{1}{4}$.25
$\frac{5}{16}$.3125	$\frac{3}{8}$.375	$\frac{1}{2}$.5
$\frac{7}{16}$.4375	$\frac{5}{8}$.625	$\frac{3}{4}$.75
$\frac{1}{2}$.5	$\frac{7}{8}$.875	$\frac{15}{16}$.9375
$\frac{9}{16}$.5625	$\frac{1}{4}$.25	$\frac{1}{2}$.5
$\frac{5}{8}$.625	$\frac{3}{8}$.375	$\frac{1}{2}$.5
$\frac{3}{4}$.75	$\frac{1}{2}$.5	$\frac{3}{4}$.75
$\frac{7}{8}$.875	$\frac{3}{4}$.75	$\frac{7}{8}$.875
$\frac{15}{16}$.9375	$\frac{7}{8}$.875	$\frac{15}{16}$.9375

Spark Plug Wrench Sizes

Plug Size	Hex Size	1405 Allstate Plug	1404 Allstate Plug	Sears Wrench Size
$\frac{3}{8}$ in.	$\frac{15}{16}$ in.	33	H-7	$\frac{31}{32} \times 1 \frac{1}{32}$
$\frac{1}{2}$ in.	$\frac{15}{16}$ in.	34	N-7	
18 MM	$\frac{7}{8}$ in.	36	C-7	
		39	EC-7	
10 MM	$\frac{3}{8}$ in.	41	VH-8	$\frac{29}{32} \times 1 \frac{1}{32}$
		43B	H-8	
		44	N-8	
		45	C-8	
		46	EC-8	
14 MM	$\frac{13}{16}$ in.	C-11A	N-10A	$\frac{21}{32} \times 2 \frac{1}{32}$
		C-11	N-10	
		C-10A	C-10	
		C-12A	EC-4	$\frac{21}{32} \times 2 \frac{1}{32}$
		C-13	C-4	
		C-14	N-4	
		C-15	H-4	

H—hot
N—normal
C—cold

VH—very hot
VC—very cold
EC—extremely cold

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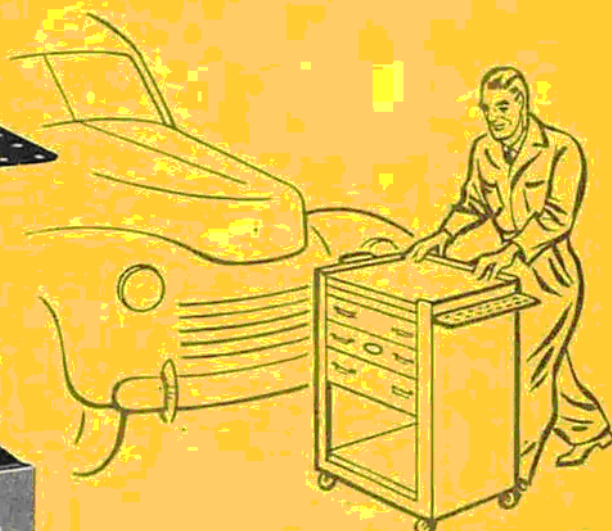
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